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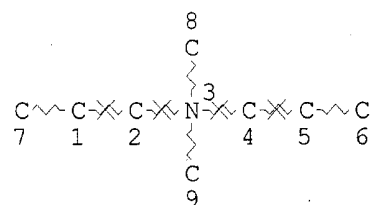
FILE COVERS 1907 - 4 May 2004 VOL 140 ISS 19

FILE LAST UPDATED: 3 May 2004 (20040503/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que

L3 STR



*query for quaternary
in a ring or chain*

NODE ATTRIBUTES:

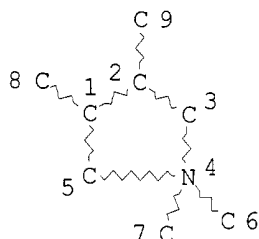
NSPEC IS RC AT 1
NSPEC IS RC AT 2
NSPEC IS RC AT 3
NSPEC IS RC AT 4
NSPEC IS RC AT 5
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L5 SCR 2043
L7 3949 SEA FILE=REGISTRY SSS FUL L3 AND L5
L13 STR



Subset search in a ring
87 polymers

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L15 87 SEA FILE=REGISTRY SUB=L7 SSS FUL L13
L16 59 SEA FILE=HCAPLUS ABB=ON L15
L17 2 SEA FILE=HCAPLUS ABB=ON L16 AND (HAIR OR KERAT?)
L18 3 SEA FILE=HCAPLUS ABB=ON L16 AND COSMETIC?/SC
L19 8 SEA FILE=HCAPLUS ABB=ON L16 AND DYE?
L20 1 SEA FILE=HCAPLUS ABB=ON L16 AND ?SILOXAN?
L21 12 SEA FILE=HCAPLUS ABB=ON (L17 OR L18 OR L19 OR L20)
L22 3 SEA FILE=HCAPLUS ABB=ON L16 AND COSMETIC?/SC,SX
L23 12 SEA FILE=HCAPLUS ABB=ON L21 OR L22

=> d l23 1-12 all hitstr

12 CA references with utility

L23 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:608001 HCAPLUS
DN 137:177096
ED Entered STN: 14 Aug 2002
TI Photopolymerizable composition containing novel borate compound
polymerization initiator for photoimaging recording material
IN Arai, Kinzo; Fukushige, Yuichi
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03F007-029

ICS C08F002-50; C08F004-52; C08F020-00; G03F007-004; G03F007-027

CC 74-4 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 35, 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002229203	A2	20020814	JP 2001-25685	20010201
PRAI	JP 2001-25685		20010201		

OS MARPAT 137:177096

AB The photopolymerizable composition comprises radically polymerizable compds. and a photopolymn. initiator, wherein the polymerization initiator is a borate compound represented by $(R_1R_2R_3R_4B-)nZm+X-(m-n)$ (R_1-4 = alkyl, aryl, heterocyclyl, silyl; $Mm+$ = cationic polymer; $X-(m-n)$ = anion; m, n = integer). The recording material comprising the photopolymerizable composition and color components are also claimed. The use of the photopolymerizable composition in the recording material provided high sensitivity, good **dye** bleaching property, and excellent storage stability.

ST photopolymerizable compn borate compd polymn initiator photoimaging recording material

IT Optical recording materials

(photopolymerizable composition containing novel borate compound polymerization initiator

for photoimaging recording material)

IT Polyurethanes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(photopolymerizable composition containing novel borate compound

polymerization initiator

for photoimaging recording material)

IT Photoimaging materials

(photopolymerizable; photopolymerizable composition containing novel borate compound polymerization initiator for photoimaging recording material)

IT Polymerization catalysts

(photopolymn.; photopolymerizable composition containing novel borate

compound

polymerization initiator for photoimaging recording material)

IT 50292-95-0

RL: TEM (Technical or engineered material use); USES (Uses)

(electron-donating colorless **dye**; photopolymerizable composition

containing novel borate compound polymerization initiator for photoimaging recording

material)

IT 153491-85-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(photopolymerizable composition containing novel borate compound

polymerization initiator

for photoimaging recording material)

IT 83063-75-6 205988-32-5 330804-60-9

RL: CAT (Catalyst use); USES (Uses)

(polymerization initiator; photopolymerizable composition containing novel

borate

compound polymerization initiator for photoimaging recording material)

IT 446840-27-3P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

USES (Uses)

(polymerization initiator; photopolymerizable composition containing novel borate compound polymerization initiator for photoimaging recording material)

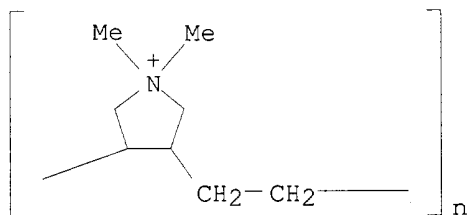
IT 446036-71-1P
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (shell of microcapsule; photopolymerizable composition containing novel borate compound polymerization initiator for photoimaging recording material)

IT 303153-82-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (spectra sensitizer; photopolymerizable composition containing novel borate compound polymerization initiator for photoimaging recording material)

IT 120370-27-6
 RL: TEM (Technical or engineered material use); USES (Uses)
 (spectra sensitizing promoting agent; photopolymerizable composition containing novel borate compound polymerization initiator for photoimaging recording material)

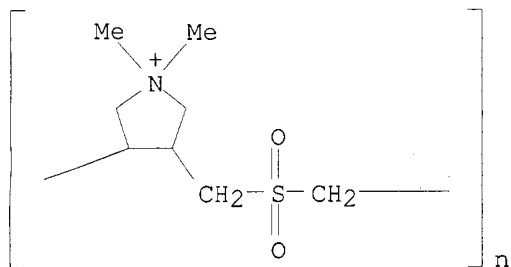
IT 83063-75-6 205988-32-5
 RL: CAT (Catalyst use); USES (Uses)
 (polymerization initiator; photopolymerizable composition containing novel borate compound polymerization initiator for photoimaging recording material)

RN 83063-75-6 HCAPLUS
 CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
 (CA INDEX NAME)



● Cl⁻

RN 205988-32-5 HCAPLUS
 CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)methylenesulfonylmethylene chloride] (9CI) (CA INDEX NAME)



● Cl⁻

L23 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:366690 HCAPLUS

DN 137:147702

ED Entered STN: 16 May 2002

TI Alignments of nematic liquid crystal molecules on azo-dye
-containing alternate self-assembled films investigated using attenuated
total reflection method

AU Shinbo, Kazunari; Ishikawa, Jun; Baba, Akira; Kaneko, Futao; Kato, Keizo;
Advincula, Rigoberto C.

CS Department of Electrical and Electronic Engineering, Niigata University,
Niigata, 950-2181, Japan

SO Japanese Journal of Applied Physics, Part 1: Regular Papers, Short Notes &
Review Papers (2002), 41(4B), 2753-2758
CODEN: JAPNDE

PB Japan Society of Applied Physics

DT Journal

LA English

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)
Section cross-reference(s): 75

AB Photoinduced in-plane alignments of nematic liquid crystal (LC) mols., 5CB,
have been investigated in a LC cell prepared with alternate self-assembled
films of polyelectrolytes and low-mol.-weight azobenzene mols. on gold
electrodes using the attenuated total reflection (ATR) measurement method.
A high dichroism of the self-assembled film was observed with the irradiation

of

linearly polarized light. The ATR properties due to excitations of
surface plasmon polaritons (SPP) were observed in the LC cell and changed
with the irradiation of linearly polarized visible light to the LC cell. The
exptl. results corresponded well with the calculated shifts at different
orientation states of 5CB mols. It was estimated that the LC mols. have
in-plane alignments and that the LC mols. are oriented perpendicular to
the polarization direction of the irradiated visible light. The mol.
orientations could be controlled by the polarization direction of
irradiated light on the hybrid LC cell. In-situ observations for the cell
were also carried out during the irradiation. Furthermore, the thickness and
dielec. consts. of the self-assembled films were evaluated using the ATR
method.

ST nematic liq crystal alignment azo dye attenuated total
reflection; photoinduced alignment nematic liq crystal attenuated total
reflection

- IT ATR (attenuated total reflection)
Molecular orientation
(alignments of nematic liquid crystal mols. on azo-**dye**-containing
alternate self-assembled films investigated by attenuated total
reflection)
- IT Surface plasmon
(alignments of nematic liquid crystal mols. on azo-**dye**-containing
alternate self-assembled films investigated by attenuated total
reflection in relation to)
- IT Isomerization
(cis-trans, photochem.; alignments of nematic liquid crystal mols. on
azo-**dye**-containing alternate self-assembled films investigated by
attenuated total reflection in relation to)
- IT Liquid crystals
(nematic; alignments of nematic liquid crystal mols. on azo-**dye**
-containing alternate self-assembled films investigated by attenuated total
reflection)
- IT Dichroism
(photoinduced; alignments of nematic liquid crystal mols. on azo-
dye-containing alternate self-assembled films investigated by
attenuated total reflection)
- IT 26062-79-3, Polydadmac
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
(Physical process); PROC (Process)
(Poly-DADMAC; alignments of nematic liquid crystal mols. on azo-
dye-containing alternate self-assembled films investigated by
attenuated total reflection)
- IT 2610-10-8, Direct Red 80 40817-08-1, 5CB **83063-75-6**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
(Physical process); PROC (Process)
(alignments of nematic liquid crystal mols. on azo-**dye**-containing
alternate self-assembled films investigated by attenuated total
reflection)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

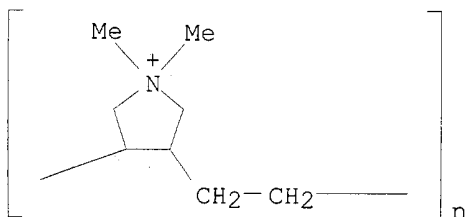
RE

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- (18) Wu, S; Opt Eng 1993, V32, P1779

IT **83063-75-6**

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
(Physical process); PROC (Process)
(alignments of nematic liquid crystal mols. on azo-**dye**-containing
alternate self-assembled films investigated by attenuated total
reflection)

RN 83063-75-6 HCAPLUS
 CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
 (CA INDEX NAME)



● Cl⁻

L23 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:142315 HCAPLUS
 DN 136:361751
 ED Entered STN: 22 Feb 2002
 TI Photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo **dye** and alignments of LC molecules
 AU Kaneko, Futao; Kato, Takashi; Baba, Akira; Shinbo, Kazunari; Kato, Keizo; Advincula, Rigoberto C.
 CS Department of Electrical and Electronic Engineering, Niigata University, Niigata, 950-2181, Japan
 SO Colloids and Surfaces, A: Physicochemical and Engineering Aspects (2002), 198-200, 805-810
 CODEN: CPAAEH; ISSN: 0927-7757
 PB Elsevier Science B.V.
 DT Journal
 LA English
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 66
 AB Photoinduced surface relief gratings of alternate layer-by-layer self-assembled films containing azobenzene **dyes** were fabricated. The alignment properties of nematic liquid crystal (LC) mols. on these films were studied in a hybrid LC cell configuration. Poly(diallyldimethylammonium chloride) (PDADMAC) and Direct Red 80 (DR80, azobenzene **dye**) were deposited using the alternate layer-by-layer self-assembly method. The gratings of the PDADMAC/DR80 films were fabricated by exposure to interference patterns of Ar⁺ laser light at 488 nm. The formation of the gratings on the films was observed using atomic force microscopy. Also, the alignment properties of LC mols., 5CB, on the films were studied by monitoring the change in birefringence of the LC cell in situ. This in-plane alignment was observed after .apprx.30 min exposure with the laser, simultaneous with the formation of the interference patterns.
 ST photo fabrication surface relief grating self assembled film; azo **dye** alignment LC mol surface relief grating
 IT Azo **dyes**
 Birefringence

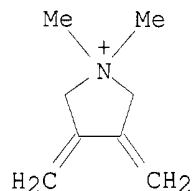
- Diffraction gratings
Liquid crystal displays
Liquid crystals
(alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- IT Borosilicate glasses
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(crown, gold-coated; alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- IT Liquid crystals
(nematic; alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- IT Molecular orientation
(photoinduced; alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- IT Films
(self-assembled; alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- IT 2610-10-8 40817-08-1, 5CB **83543-32-2**
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- IT 2424-92-2, Eicosanedioic acid 17887-09-1
RL: TEM (Technical or engineered material use); USES (Uses)
(alignment of LC mols. and photoinduced fabrication of surface relief gratings in alternate self-assembled films containing azo dye)
- RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
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- IT **83543-32-2**
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(alignment of LC mols. and photoinduced fabrication of surface relief

gratings in alternate self-assembled films containing azo dye)
RN 83543-32-2 HCAPLUS
CN Pyrrolidinium, 1,1-dimethyl-3,4-bis(methylene)-, chloride, homopolymer
(9CI) (CA INDEX NAME)

CM 1

CRN 83543-31-1

CMF C8 H14 N . Cl



● Cl⁻

L23 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:782514 HCAPLUS
DN 134:61954
ED Entered STN: 08 Nov 2000
TI Photo-induced structural changes of azobenzene Langmuir-Blodgett films
AU Matsumoto, M.; Terrettaz, S.; Tachibana, H.
CS National Institute of Materials and Chemical Research, Tsukuba, Higashi,
305-8565, Japan
SO Advances in Colloid and Interface Science (2000), 87(2,3), 147-164
CODEN: ACISB9; ISSN: 0001-8686
PB Elsevier Science B.V.
DT Journal
LA English
CC 66-1 (Surface Chemistry and Colloids)
Section cross-reference(s): 41, 74
AB Structural changes of the Langmuir-Blodgett (LB) films of azobenzene accompanied by photoisomerization are described. First, photoisomerization is explained in terms of 'free volume'. In the polyion complex monolayers of amphiphiles having 2 azobenzene units at the air-water interface, the area per mol. depends on the polycation species. The fraction of cis-azobenzene in the LB films at the photostationary state under the illumination with UV light increased with increasing area per mol., which is consistent with the concept of free volume. Second, a counter example of the concept of free volume is presented. 3D cone-shaped structures developed with trans-to-cis photoisomerization in the polyion complex LB film of a water-soluble amphiphilic azobenzene. These structures appeared and disappeared reversibly by alternate illumination with UV and visible light. The 2D LB film structure exerts significant modification by photoisomerization. This is against the concept of free volume because this concept does not consider the possibility that the 2D LB film structures may change into three-dimensional ones. Photo-induced J-aggregate formation of non-photochromic and photochromic dyes is described. Two cyanine dyes were each mixed with an amphiphilic azobenzene in the LB films. These cyanine dyes are

known to form J-aggregates in single-component LB films. In the mixed LB films, the J-aggregate formation was suppressed to some extent. The alternate illumination of the films with UV and visible light caused the photoisomerization of azobenzene in the mixed LB films, which triggered the J-aggregate formation of the cyanine **dyes**. The J-aggregate formation was accompanied by the development of 3D cone-shaped structures from the film surface. When an amphiphilic merocyanine was mixed with the azobenzene in the LB films, J-aggregate formation was also induced by the alternate illumination with UV and visible light. This J-aggregate formation was also accompanied by a large morphol. change: circular domains changed into fractal-like ones. The J-aggregate formation of the **dyes** and the concomitant morphol. change were irreversible. In these cases, the photoisomerization of azobenzene served as a trigger to induce self-organization of the **dye** mols.

ST azobenzene LB film photoisomerization J aggregate photochromic **dye**

IT Isomerization

(cis-trans, photochem.; photo-induced structural changes of azobenzene LB films and J-aggregate formation of non-photochromic and photochromic **dyes**)

IT Photochromic materials

(**dyes**; photo-induced structural changes of azobenzene LB films and J-aggregate formation of non-photochromic and photochromic **dyes**)

IT J-aggregates

Langmuir-Blodgett films

Structural phase transition

(photo-induced structural changes of azobenzene LB films and J-aggregate formation of non-photochromic and photochromic **dyes**)

IT **Dyes**

(photochromic; photo-induced structural changes of azobenzene LB films and J-aggregate formation of non-photochromic and photochromic **dyes**)

IT 174271-82-0 202518-20-5

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(azobenzene derivative; photo-induced structural changes of azobenzene LB films and J-aggregate formation of non-photochromic and photochromic **dyes**)

IT 67878-03-9 130184-21-3 220654-23-9 220654-26-2

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(**dye**; photo-induced structural changes of azobenzene LB films and J-aggregate formation of non-photochromic and photochromic **dyes**)

IT 29322-34-7 29322-35-8 29792-49-2 31622-87-4 31622-88-5

83543-32-2

RL: PRP (Properties)

(polycation; photo-induced structural changes of azobenzene LB films in relation to content of)

RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD

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- IT 83543-32-2

RL: PRP (Properties)

(polycation; photo-induced structural changes of azobenzene LB films in relation to content of)

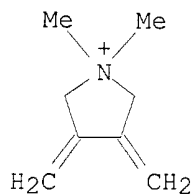
RN 83543-32-2 HCAPLUS

CN Pyrrolidinium, 1,1-dimethyl-3,4-bis(methylene)-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 83543-31-1

CMF C8 H14 N . Cl

● Cl⁻

L23 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:360421 HCAPLUS

DN 133:127542

ED Entered STN: 31 May 2000

TI Surface relief gratings from electrostatically layered azo **dye** films

AU He, Jin-An; Bian, Shaoping; Li, Lian; Kumar, Jayant; Tripathy, Sukant K.; Samuelson, Lynne A.

CS Departments of Chemistry and Physics, Center for Advanced Materials, University of Massachusetts-Lowell, Lowell, MA, 01854, USA

SO Applied Physics Letters (2000), 76(22), 3233-3235

CODEN: APPLAB; ISSN: 0003-6951

PB American Institute of Physics

DT Journal

LA English

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

AB Surface relief gratings (SRGs) were fabricated on composite films assembled by alternate electrostatic deposition of a polyelectrolyte, poly(dimethyldiallylammonium chloride), and an organic azo **dye**, Congo red. The modulation of SRGs was found to increase with the thickness of the matrix films. Significant photochem. bleaching of the azo **dye** in the polymeric microenvironment as well as gradient-force-induced migration of the small azo **dye** contributes to the formation of the SRG structure. This finding demonstrates a facile method to fabricate SRGs for optical and information storage applications using com. available azo **dyes** and polyelectrolytes.

ST electrostatic layer adsorption polyelectrolyte azo **dye** surface relief grating

IT UV and visible spectra

(absorption; surface relief gratings fabrication on composite films)

assembled by alternate electrostatic deposition of polyelectrolyte and azo **dye** in relation to)

IT Ionene polymers

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(surface relief gratings fabrication on composite films assembled by alternate electrostatic deposition of polyelectrolyte and azo **dye**)

IT Absorption spectra

Diffraction gratings

Imaging

Optical recording

(surface relief gratings fabrication on composite films assembled by alternate electrostatic deposition of polyelectrolyte and azo **dye** in relation to)

IT 573-58-0, Congo red 26062-79-3, Poly(dimethyldiallylammonium chloride) **83063-75-6**

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(surface relief gratings fabrication on composite films assembled by alternate electrostatic deposition of polyelectrolyte and azo **dye**)

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD

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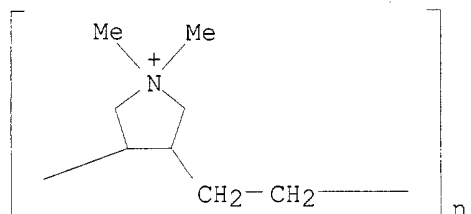
IT **83063-75-6**

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(surface relief gratings fabrication on composite films assembled by alternate electrostatic deposition of polyelectrolyte and azo **dye**)

RN 83063-75-6 HCAPLUS

CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
(CA INDEX NAME)



● Cl⁻

L23 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:584561 HCAPLUS

DN 127:180924

ED Entered STN: 13 Sep 1997

TI Preparation of dust-free peroxy compounds

IN Zeiss, Werner; Hartmann, Christoph; Ohme, Roland; Ballschuh, Detlef

PA Peroxid-Chemie GmbH, Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A61K007-135

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19604274	A1	19970807	DE 1996-19604274	19960206
	WO 9728781	A1	19970814	WO 1997-EP511	19970205
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 881895	A1	19981209	EP 1997-902329	19970205
	R: DE				
PRAI	DE 1996-19604274		19960206		
	WO 1997-EP511		19970205		

AB Powdered peroxy or peroxy compds. for **hair** bleaches are wetted with an aqueous solution of a polyfunctional olefin monomer and dried to provide a polymeric coating on the particles for dust control. The treatment, which requires only very small amts. of monomer, also has an antistatic effect. The peroxy or peroxy compound itself may act as polymerization initiator.

Thus,

200 g K peroxomonosulfate triple salt (2KHSO₅.KHSO₄.K₂SO₄) with a dust content of 2.26% was sprayed with 4 g 50% aqueous dimethyldiallylammonium chloride solution (containing 2 mol% methyltriallylammonium chloride as crosslinking agent and 0.1 g Na peroxodisulfate as supplementary initiator); polymerization occurred during drying in air.

ST peroxy compd dustfree polymer coating; vinyl polymer coating peroxy compd; **hair** bleach peroxy compd dustfree

IT Dust

(airborne, control of; preparation of dust-free peroxy compds.)

IT **Hair** preparations

(bleaches; preparation of dust-free peroxy compds.)

IT Air purification

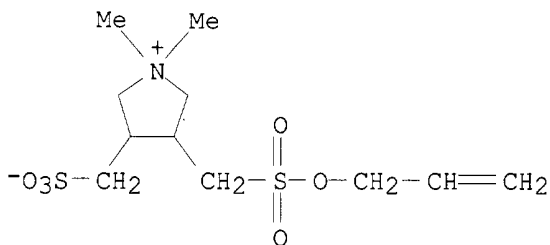
(dust suppression; preparation of dust-free peroxy compds.)

- IT Airborne particles
(dust, control of; preparation of dust-free peroxy compds.)
- IT Air pollution
(particulate, control of; preparation of dust-free peroxy compds.)
- IT Peroxides, biological studies
Polyolefins
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(preparation of dust-free peroxy compds.)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(salts with acrylates, polymers; preparation of dust-free peroxy compds.)
- IT 79-10-7D, 2-Propenoic acid, alkali metal salts, homopolymers, biological studies 79-10-7D, 2-Propenoic acid, esters, polymers, biological studies 79-41-4D, alkali metal salts, homopolymers 110-16-7D, 2-Butenedioic acid (Z)-, alkali metal salts, homopolymers 110-17-8D, 2-Butenedioic acid (E)-, alkali metal salts, homopolymers 621-82-9D, Cinnamic acid, alkali metal salts, homopolymers 1184-84-5D, Vinylsulfonic acid, alkali metal salts, homopolymers 1606-80-0D, Allylsulfonic acid, alkali metal salts, homopolymers 7727-21-1 7775-27-1, Sodium peroxodisulfate 9003-05-8, Polyacrylamide 15214-89-8D, alkali metal salts, homopolymers 19067-93-7 25014-12-4, Poly(methacrylamide) 26062-79-3, Poly(dimethyldiallylammonium chloride) 26949-19-9 37222-66-5 52047-44-6 57460-68-1 79314-06-0 125044-64-6 193969-47-0 193969-49-2 193969-51-6 193969-52-7 193969-55-0 193969-58-3 193969-60-7 193969-64-1 193969-65-2 193969-66-3 193969-67-4 193969-69-6 193969-71-0 193969-73-2 193969-74-3
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(preparation of dust-free peroxy compds.)
- IT 193969-69-6 193969-71-0
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(preparation of dust-free peroxy compds.)
- RN 193969-69-6 HCAPLUS
- CN Pyrrolidinium, 1,1-dimethyl-3-[[[(2-propenyloxy)sulfonyl]methyl]-4-(sulfomethyl)-, inner salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 193969-68-5

CMF C11 H21 N O6 S2



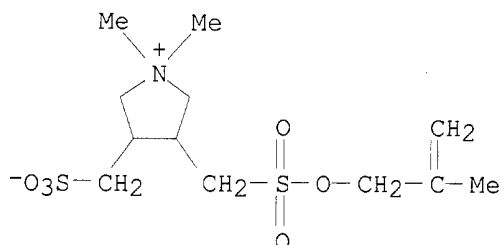
RN 193969-71-0 HCAPLUS

CN Pyrrolidinium, 1,1-dimethyl-3-[[[(2-methyl-2-propenyl)oxy]sulfonyl]methyl]-4-(sulfomethyl)-, inner salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 193969-70-9

CMF C12 H23 N O6 S2



L23 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:647964 HCAPLUS

DN 123:35202

ED Entered STN: 01 Jul 1995

TI Hydrophilic acrylonitrile polymer reinforcing and process fibers with silicate affinity

IN Schoening, Klaus-Juergen; Ellmann, Rita; Schmidt, Burkhard; Ballschuh, Detlef; Ohme, Roland; Seibt, Horst; Engelbrecht, Lothar

PA Maerkische Faser AG Premnitz, Germany

SO Ger., 6 pp.

CODEN: GWXXAW

DT Patent

LA German

IC ICM D01F011-06

ICS D01F006-38; D06M015-356; D06M013-342; C04B016-06

CC 40-5 (Textiles and Fibers)

Section cross-reference(s): 58

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4316667	C1	19940818	DE 1993-4316667	19930513
PRAI	DE 1993-4316667		19930513		

AB Title fibers comprise a copolymer content of 5-15 weight% of an ester component and 0.6-1.4 weight% (meth)allylsulfonate and a film-forming coating comprising a polymeric pyrrolidinium salt 4-12, ethoxylated alkylammonium betaine 4-13, alkylbis(polyoxyethylene)ammoniumsulfobetaine sulfinate or sulfobetainesulfonate 4-7, nonionic surfactant 1-5, low mol. weight alc. or glycol 5-10, foam inhibitor 0.05-2, film-forming assistants 0.05-2, and water to 100 weight%. The fibers are readily incorporated in hydraulic binders, e.g. plaster, mortar, and concrete, have a good bond to the material, and produce good composite. An acrylonitrile-Me acrylate-sodium allylsulfonate copolymer (93.00:5.92:1.08) fiber was prepared, treated in an aqueous bath containing dimethyldiallylammonium chloride-sulfur dioxide copolymer,

hexadecyl/octadecylbis(polyoxyethylene)-3-sulfopropylammonium betaine, hexadecyl/octadecylbis(polyoxyethylene)-2-sulfinato-3-sulfopropylammonium betaine, hexadecyl/octadecylbis(polyoxyethylene)carboxymethylammonium betaine, ethoxylated C9-18 alcs, chain-cleaved di-Me **siloxane**, and a mixture of triethoxysilylpropylamine and the alcoholysis product of a chain cleaved di-Me **siloxane**, and are easily incorporated into a

building material.

ST hydraulic binder reinforcement acrylic fiber; silicate acrylic fiber reinforcement; sulfoammonium betaine acrylic fiber reinforcement; ethoxylated alc acrylic fiber reinforcement; cement reinforcement acrylic fiber; concrete reinforcement acrylic fiber; mortar reinforcement acrylic fiber

IT Betaines
RL: NUU (Other use, unclassified); USES (Uses)
(ethoxylated; hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT Cement
Concrete
Mortar
(hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT Acrylic fibers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(in hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT Alcohols, uses
RL: NUU (Other use, unclassified); USES (Uses)
(fatty, ethoxylated, in hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT Betaines
RL: NUU (Other use, unclassified); USES (Uses)
(sulfo-, ethoxylated, sulfinate; hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT 25053-78-5, Acrylonitrile-methyl acrylate-sodium allylsulfonate copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(fiber; hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

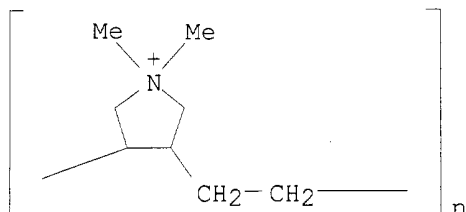
IT 26470-16-6, Dimethyldiallylammonium chloride-sulfur dioxide copolymer
26590-05-6, Acrylamide-dimethyldiallylammonium chloride copolymer
83063-75-6
RL: NUU (Other use, unclassified); USES (Uses)
(hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT 71-36-3, Butanol, uses 107-88-0, 1,3-Butanediol 504-63-2, 1,3-Propanediol 9016-00-6D, Dimethyl **siloxane**, chain-cleaved 31900-57-9D, Dimethylsilanediol homopolymer, chain-cleaved
RL: NUU (Other use, unclassified); USES (Uses)
(in hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

IT **83063-75-6**
RL: NUU (Other use, unclassified); USES (Uses)
(hydrophilic acrylonitrile polymer reinforcing- and process fibers with silicate affinity)

RN 83063-75-6 HCAPLUS

CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
(CA INDEX NAME)



● Cl⁻

L23 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:372888 HCAPLUS

DN 122:163407

ED Entered STN: 24 Feb 1995

TI **Dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness

IN Kitagawa, Yosuke; Hoshikawa, Ryuichi

PA Matsui Shikiso Kagaku Kogyosho, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

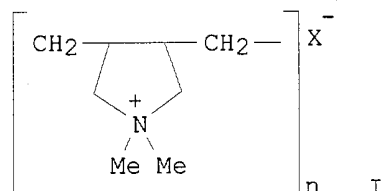
IC ICM D06P005-00

ICS D06P005-00

CC 40-6 (Textiles and Fibers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06306777	A2	19941101	JP 1993-113624	19930416
PRAI	JP 1993-113624		19930416		
GI					



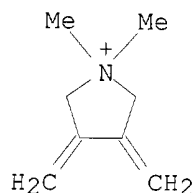
AB Fabrics with thermochromic and/or photochromic shades are prepared by treating fabrics with N-containing cationic polymers and **dyeing** the fabrics with liqs. containing particles exhibiting thermochromic and/or photochromic shades and treating the fabrics with thermoplastic polymers during the cationization or **dyeing** step or after the **dyeing** step. A woven cotton fabric was treated with an aqueous solution containing I for 30 min at 70°, rinsed, **dyed** with a liquid containing 15% (on fiber) aqueous 15% dispersion of microcapsules containing 3-diethylamino-7,8-benzofluoran and 0.5% PG Color Blue MI-IG for 15 min at

- 60°, and rinsed. The fabric was treated with an emulsion containing Bu acrylate-Et acrylate-2-ethylhexyl acrylate copolymer for 15 min at 70°, rinsed, and dried to give a fabric exhibiting deep-purple shade at ≤22° and blue shade at ≥32° and crocking fastness rating (AATCC 8-1979; gray scale) 3 and washfastness rating (JIS L-0844) 4.
- ST textile **dyeing** thermochromic shade; cotton textile **dyeing** thermochromic shade; photochromic shade textile **dyeing**; washfastness textile **dyeing** thermochromic shade; cationic polymer textile **dyeing** thermochromic shade
- IT Urethane polymers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(colorfastness improver; **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT Polyester fibers, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(cotton blends; **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT Rayon, uses
Textiles
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(**dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT Thermochromic substances
(fabrics **dyed** with particles showing color change by heat as)
- IT Photochromic substances
(fabrics **dyed** with particles showing color change by light as)
- IT **Dyeing**
(of fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT Textiles
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(cotton, **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT Quaternary ammonium compounds, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polymers, cationization agent; **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT 83543-32-2 144638-44-8, Sanfix PAC-7 161445-39-2, Fixer P
RL: TEM (Technical or engineered material use); USES (Uses)
(cationization agent; **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT 53465-37-5, Butyl acrylateethyl acrylate-2-ethylhexyl acrylate copolymer 77641-41-9, Hydran HW 311 161587-69-5
RL: TEM (Technical or engineered material use); USES (Uses)
(colorfastness improver; **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- IT 83543-32-2
RL: TEM (Technical or engineered material use); USES (Uses)
(cationization agent; **dyeing** fabrics with particles showing color change by light and/or heat with good colorfastness)
- RN 83543-32-2 HCAPLUS
- CN Pyrrolidinium, 1,1-dimethyl-3,4-bis(methylene)-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

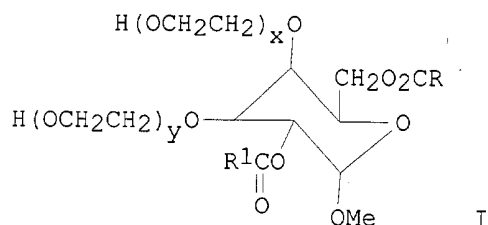
CRN 83543-31-1

CMF C8 H14 N . Cl

● Cl⁻

L23 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1992:158575 HCAPLUS
 DN 116:158575
 ED Entered STN: 17 Apr 1992
 TI Liquid body cleansers containing cationic polymers, glucose derivatives,
 and fatty acid soaps
 IN Takada, Yuichi; Yuizono, Makoto; Inaizumi, Mika
 PA Lion Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM A61K007-50
 ICS C08L039-02; C11D009-22
 CC 62-4 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03227914	A2	19911008	JP 1990-21571	19900131
PRAI	JP 1990-21571		19900131		
GI					



AB A liquid cleansing composition, which is creamy and producing foams, for human body consists of (1) higher fatty acid soap 5-30, (2) cationic polymers (Markush given) 0.05-1.0 and (3) glucose derivs. I (R, R1 = C8-20 alkyl; x + y = 50-200) 0.3-10.0% by weight The cationic polymers may be poly(dimethyldialkylammonium chloride), copolymers of

dimethyldiallylammonium chloride and acrylamide, and cationic hydroxyethyl cellulose. Thus, a liquid cleansing composition was prepared consisting of a coconut oil fatty acid K salt-K myristate mixture (1:3 by weight) 15, Maquat-550 0.2, I (RCO₂, R1CO₂ = oleic acid ester; x + y = 120) 1, coconut oil fatty acid diethanolamide 1, propylene glycol 5, 1,3-butylene glycol 5, Na₄ EDTA 0.1, perfume 1, and water to 100% by weight

ST soap glucose deriv polymer
 IT Cosmetics
 (cleansing, cationic polymers and glucose derivs. and fatty acid soaps in)

IT Fatty acids, compounds
 RL: BIOL (Biological study)
 (coco, potassium salts, body cleanser containing)

IT 50-99-7D, D-Glucose, derivs. 9004-62-0, Hydroxyethyl cellulose 26062-79-3, Dimethyldiallylammonium chloride polymer 26590-05-6 26590-05-6, Maquat 550 81859-24-7, Leogard G **83543-32-2** 139895-03-7
 RL: BIOL (Biological study)
 (body cleanser containing)

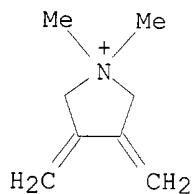
IT 13429-27-1, Potassium myristate
 RL: BIOL (Biological study)
 (liquid body cleansers containing)

IT **83543-32-2**
 RL: BIOL (Biological study)
 (body cleanser containing)

RN 83543-32-2 HCAPLUS
 CN Pyrrolidinium, 1,1-dimethyl-3,4-bis(methylene)-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 83543-31-1
 CMF C8 H14 N . Cl



● Cl⁻

L23 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:11788 HCAPLUS
 DN 112:11788
 ED Entered STN: 06 Jan 1990
 TI **Hair** conditioners comprising pyrrolidonium chloride polymer
 IN Hamann, Albrecht; Neumann, Wolfgang; Koch, Walter; Staeck, Rainer; Biering, Holger; Schuessling, Ernst; Stoye, Manfred; Mackowiak, Joachim; Peter, Thomas
 PA VEB Chemiekombinat Bitterfeld, Ger. Dem. Rep.
 SO Ger. (East), 4 pp.

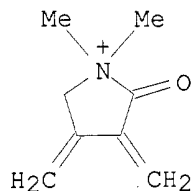
CODEN: GEXXA8

DT Patent
 LA German
 IC ICM A61K007-11
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 266228	A3	19890329	DD 1987-303374	19870601
PRAI	DD 1987-303374		19870601		
OS	MARPAT 112:11788				
AB	A hair conditioner comprises urea 0.2-2.0, poly(vinyl alc.) (partially saponified; acid number < 3) 0.15-1.0, poly(1,1-dimethyl-3,4-dimethylenepyrrolidonium chloride) (mol. weight >30,000) 0.15-3.0, EtOH and/or ProH 1.0-20.0, mixts. of mono- and dialkylpolyglycol phosphates 0-0.65, organic or inorg. acids or salts 0.1-0.5, nonylphenyl polyglycol ether 0-0.65 NH3 or triethanolamine 0.01-0.5, and water to 100% by weight. The phosphates are (RO)(R1O)P(O)OH [R = H(CH2)n(CH2)m; R1 = R, H; n = 16-18; m = 7-9].				
ST	hair conditioner polypyrrolidonium chloride				
IT	Hair preparations (conditioners, pyrrolidonium chloride polymers-containing)				
IT	57-13-6, Urea, biological studies 9002-89-5D, Poly(vinyl alcohol), partially hydrolyzed 25852-91-9D, alkyl derivs. 124303-34-0 RL: BIOL (Biological study) (hair conditioner containing)				
IT	124303-34-0 RL: BIOL (Biological study) (hair conditioner containing)				
RN	124303-34-0 HCAPLUS				
CN	Pyrrolidinium, 1,1-dimethyl-3,4-bis(methylene)-2-oxo-, chloride, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 124303-33-9
 CMF C8 H12 N O . Cl

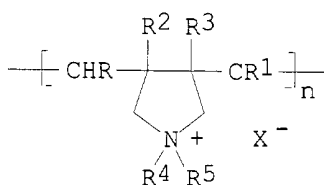
● Cl⁻

L23 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1983:584959 HCAPLUS
 DN 99:184959
 ED Entered STN: 12 May 1984
 TI Light-sensitive photographic silver halide material containing an antistatic agent

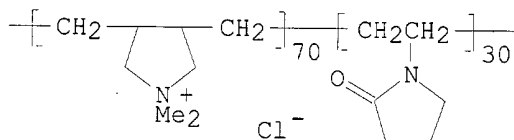
IN Plaschnick, Dieter; Kuhrt, Angela; Meisel, Ulrich; Bley, Mechthild;
 Jaeger, Werner; Wandrey, Christine; Linow, Karl Joachim
 PA VEB Filmfabrik Agfa, Ger. Dem. Rep.
 SO Ger. (East), 10 pp.
 CODEN: GEXXA8
 DT Patent
 LA German
 IC G03C001-82
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 200395	Z	19830504	DD 1981-233614	19810928
PRAI	DD 1981-233614		19810928		
GI					



I



II

AB Photog. materials having improved antistatic characteristics contain in an antihalation layer, interlayer, or top layer a homo- or copolymer having repeating units with a quaternary ammonium structure of the formula I (R-R3 = H or C1-6 alkyl; R4,R5 = C1-18 alkyl; X- = halide, NO3-, OH-, HSO4-, SO42-, n = 100-600) as the antistatic agent. The antistatic agent, which has no adverse effects on the phys.-mech. properties of the photog., can contain a vinyl compound, such as acrylic acid, arylamide, arylonitrile, diacetoneacrylamide, or vinylpyrrolidone, as the comonomer. Thus, a color photog. material carrying an antihalation back layer containing the polymer II, the polymeric acid HO2C(CH2CMePh)CO2H, and a triphenylmethane dye showed a surface resistance of $5.2 \times 10^6 \Omega$ and excellent antistatic characteristics.

ST quaternary ammonium polymer antistatic photog

IT Photographic films

(containing quaternary ammonium group-containing polymer for improved antistatic properties)

IT Phenolic resins, uses and miscellaneous

RL: USES (Uses)

(photog. materials with antistatic layer containing quaternary ammonium group-containing polymer and)

IT Quaternary ammonium compounds, polymers

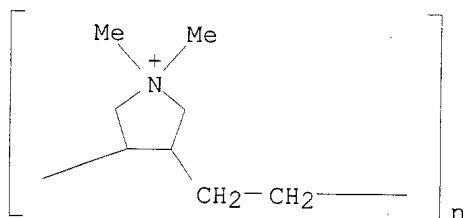
RL: USES (Uses)

(polymers, photog. films containing, for improved antistatic properties)

IT Antistatic agents

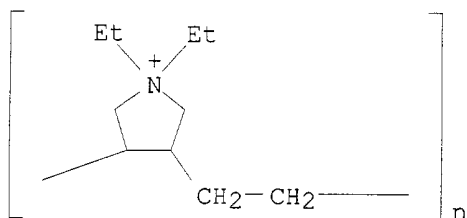
(quaternary ammonium group-containing polymers as, for photog. materials)

IT 83063-75-6 83084-46-2 87516-73-2
RL: USES (Uses)
(antistatic agent, for photog. materials)
IT 87524-46-7
RL: USES (Uses)
(photog. films containing quaternary ammonium group-containing polymer and,
for improved antistatic properties)
IT 79-06-1D, polymers with quaternary ammonium compds. 79-10-7D, polymers
with quaternary ammonium compds. 88-12-0, uses and miscellaneous
107-13-1D, polymers with quaternary ammonium compds. 2873-97-4
87516-85-6
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. materials containing, for improved antistatic properties)
IT 9016-83-5
RL: USES (Uses)
(photog. materials with antistatic layers containing quaternary ammonium
group-containing polymer and)
IT 83063-75-6 83084-46-2 87516-73-2
RL: USES (Uses)
(antistatic agent, for photog. materials)
RN 83063-75-6 HCAPLUS
CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
(CA INDEX NAME)



● Cl⁻

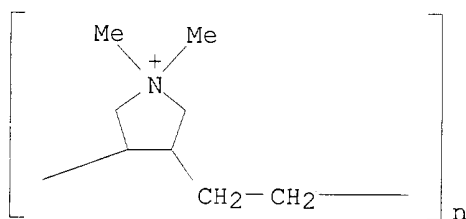
RN 83084-46-2 HCAPLUS
CN Poly[(1,1-diethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
(CA INDEX NAME)



● Cl⁻

RN 87516-73-2 HCAPLUS

CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl hydroxide] (9CI)
(CA INDEX NAME)



● OH⁻

IT 87516-85-6

RL: TEM (Technical or engineered material use); USES (Uses)
(photog. materials containing, for improved antistatic properties)

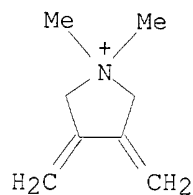
RN 87516-85-6 HCAPLUS

CN Pyrrolidinium, 1,1-dimethyl-3,4-bis(methylene)-, chloride, polymer with
1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 83543-31-1

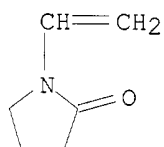
CMF C8 H14 N . Cl

● Cl⁻

CM 2

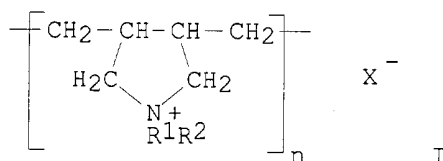
CRN 88-12-0

CMF C6 H9 N O



L23 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1982:518184 HCAPLUS
DN 97:118184
ED Entered STN: 12 May 1984
TI Mordanting of filter **dyes** in photographic materials
IN Meisel, Ulrich; Plaschnick, Dieter; Luu, Trong Hong; Wandrey, Christine;
Bach, Guenter; Jaeger, Werner; Hahn, Mathias; Seehaus, Friedhelm; Linow,
Karl Joachim; Philipp, Burkart
PA VEB Filmfabrik Wolfen, Fotochemisches Kombinat, Ger. Dem. Rep.
SO Ger. (East), 16 pp.
CODEN: GEXXA8
DT Patent
LA German
IC G03C001-84
ICA G03C001-40
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DD 153002	Z	19811216	DD 1980-223799	19800909
PRAI DD 1980-223799		19800909		
GI				



AB Almost all conventional acid filter **dyes** can be rendered nondiffusing in emulsion or thin auxiliary layers, without lowering their phys.-mech. properties or interference with their bleachability or washing-out during processing by a small amount of a mordant (I; R₁, R₂ = C₁-4 alkyl; n = 300-600; and X⁻ = anion). Added as storable 5-10% solution they have a low water absorption and have little effect on the viscosity of gelatin coatings. Thus, 2 solns. were made both containing gelatin 100 and a pentamethine **dye** 8, and as mordant solution A an imide of maleic anhydride interpolymers of US 3,048,487 (CA 59; 7726b) 4 g, and solution B I (R₁, R₂ = Me, n = 300, X = Cl⁻) 4.15 g. A Yielded a 2.3μ filter layer having an optical d. of 1.09, and B one of 2.0μ and 0.98, resp. The water absorption of the layers was 4.1 and 3.0 g H₂O/m², and the **dye** diffusion after 2 wet contacts with a layer of unhardened gelatin 43 and 2% (as optical d.), resp.

ST filter **dye** mordant photog

IT Photographic films

(filter **dye** mordanting agents for)

IT Photographic films

(color, diffusion-transfer, mordanting agents for filter **dyes** for)

IT 83063-75-6

RL: USES (Uses)

(mordanting agent, for photog. filter **dyes**)

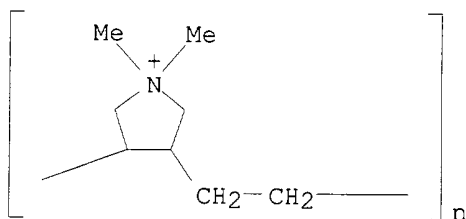
IT 83063-75-6

RL: USES (Uses)

(mordanting agent, for photog. filter **dyes**)

RN 83063-75-6 HCAPLUS

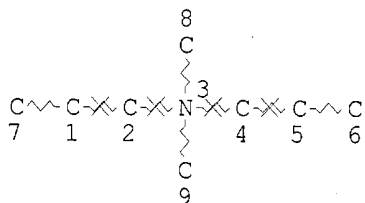
CN Poly[(1,1-dimethylpyrrolidinium-3,4-diyl)-1,2-ethanediyl chloride] (9CI)
(CA INDEX NAME)



● Cl⁻

=> => d que

L1 1 SEA FILE=HCAPLUS ABB=ON 2002:831728/AN
L3 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 1
NSPEC IS RC AT 2
NSPEC IS RC AT 3
NSPEC IS RC AT 4
NSPEC IS RC AT 5
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L5 SCR 2043
L7 3949 SEA FILE=REGISTRY SSS FUL L3 AND L5
L8 7694 SEA FILE=HCAPLUS ABB=ON L7
L24 1 SEA FILE=HCAPLUS ABB=ON L1 AND L8

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L24 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:831728 HCAPLUS
DN 137:329257
ED Entered STN: 01 Nov 2002
TI Hair dyes containing active conditioning ingredients
IN Wolff, Wolfgang; Akram, Mustafa; Tanaka, Hiroshi
PA Hans Schwarzkopf Gmbh & Co. Kg, Germany
SO Ger. Offen., 24 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM A61K007-13
CC 62-3 (Essential Oils and Cosmetics)
FAN.CNT 1

applicants

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10120914	A1	20021031	DE 2001-10120914	20010427
	WO 2002087515	A2	20021107	WO 2002-EP4275	20020418
	WO 2002087515	A3	20031030		
	W: AU, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

EP 1385468 A2 20040204 EP 2002-730173 20020418

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY, TR

PRAI DE 2001-10120914 A 20010427

WO 2002-EP4275 W 20020418

AB The invention concerns hair dye formulations that include a combination of active conditioners selected from the group of amino-functionalized polysiloxanes and quaternary ammonium-acrylic copolymer. The conditioners are included in oxidative and direct hair dyes. Thus a dye cream contained (weight/weight%): aqueous ammonium carbopol solution (1%) 15.0;

Lanette E

0.70; sodium lauryl ether sulfate (27% aqueous solution) 4.40; PEG-400 0.60; potassium oleate (12.5 aqueous solution) 3.00; titanium dioxide 0.50; cetylstearyl alc. 50/50 12.00; Eumulgine B2 3.00; Eutanol G 2.00; Cutina AGS 2.00; Cutina GMS-SE 2.00; XF42-B1989 (Amodimethicone) 1.50; potassium hydroxide (50% aqueous solution) 0.48; tetrasodium EDTA 0.40; sodium sulfite 0.10; ascorbic acid 0.05; Merquat Plus 3330 2.00; perfume 0.50; ammonia (25% aqueous solution) 6.00; Aerosil 200 0.25; p-toluenediamine sulfate 0.460; resorcin 0.200; m-aminophenol 0.026; 2,6-diaminopyridine 0.010; 2,4-diaminophenoxyethanol dihydrochloride 0.012; water to 100.

ST hair dye conditioner aminofunctionalized polysiloxane quaternary ammonium acrylic copolymer

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
([(aminoethyl)aminol]propyl hydroxy, di-Me; hair dyes containing active conditioning ingredients)

IT Polysiloxanes, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(amino-functionalized; hair dyes containing active conditioning ingredients)

IT Hair preparations

(conditioners; hair dyes containing active conditioning ingredients)

IT Dyes

(direct; hair dyes containing active conditioning ingredients)

IT Hair preparations

(dyes, oxidative; hair dyes containing active conditioning ingredients)

IT Hair preparations

(dyes; hair dyes containing active conditioning ingredients)

IT Oxidizing agents

(hair dyes containing active conditioning ingredients)

IT Quaternary ammonium compounds, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyes containing active conditioning ingredients)

IT Acrylic polymers, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(quaternary ammonium-acrylic copolymer; hair dyes containing active conditioning ingredients)

IT 99-56-9, 1,2-Diamino-4-nitrobenzene 108-46-3, Resorcin, biological studies 120-72-9D, Indole, derivs. 123-30-8, p-Aminophenol 141-86-6, 2,6-Diaminopyridine 496-15-1D, Indoline, derivs. 591-27-5, m-Aminophenol 2835-95-2, 5-Amino-2-methylphenol 6369-59-1, p-Toluenediamine sulfate 9016-00-6D, Dimethylpolysiloxane, derivs. 25136-75-8, Merquat Plus 3330 66422-95-5, 2,4-Diaminophenoxyethanol dihydrochloride

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyes containing active conditioning ingredients)

IT 25136-75-8, Merquat Plus 3330

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyes containing active conditioning ingredients)

RN 25136-75-8 HCAPLUS

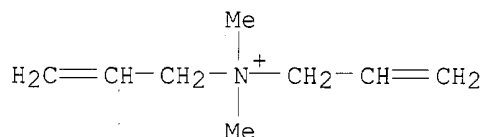
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

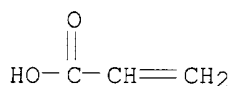
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● Cl⁻

CM 2

CRN 79-10-7

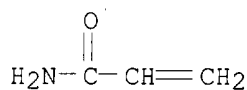
CMF C3 H4 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



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L31 ANSWER 1 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:198245 HCAPLUS

DN 140:240598

TI Combination of oxydative hair **dyes** with indole or indoline
dyes for improved color equalizing

IN Akram, Mustafa; Rath, Susanne; Hoeffkes, Horst

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 28 pp.

CODEN: GWXXBX

DT Patent

remaining references
with
Chain
quaternary
nitrogen

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10240758	A1	20040311	DE 2002-10240758	20020830
	WO 2004024109	A1	20040325	WO 2003-EP9249	20030821
	W: AU, BR, CA, CN, JP, NO, PL, RU, US, VN				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
PRAI	DE 2002-10240758	A	20020830		
OS	MARPAT 140:240598				
AB	The invention concerns hair dye combinations containing indole or indoline dyes for improved color equalizing along with coupling and developing components. The hair dyes also contain silicones and polydimethyldiallyl ammonium compds. Thus a composition contained (weight/weight%): cetyl alc. 14.00; glycerin monostearate NSE 2.10; Cetiol V 2.50; Plantaren 2000 0.50; Hycrylmulgol 012 5.45; potassium olein soap (12.5%) 10.00; ammonium rohagit solution (6%) 5.00; ammonium carbopol solution (1%) 10.00; titanium dioxide 0.50; tetrasodium EDTA 0.20; ammonia (25%) 8.00; ascorbic acid 0.5; sodium sulfite 0.10; phospholipid EFA 1.00; Mirapol A15 0.25; perfume 0.4; 5,6-dihydroxyindoline hydrobromide 0.02; 2-Me resorcin 0.10; p-tolylene diamine sulfate 1.45; resorcin 0.50; 2-amino-3-hydroxypyridine 0.09; m-aminophenol 0.12; 3-methyl-4-aminophenol 0.01; 2,2'-dihydroxy-4,4'-diamino-diphenyl methane dihydrochloride 0.08; 4(2-hydroxyethyl)amino-2-aminoanisole 0.03; 2-chloro-3-amino-6-methylphenol 0.02; water to 100.				
IC	ICM A61K007-13				
CC	62-3 (Essential Oils and Cosmetics)				
ST	oxidative hair dye indole indoline diaminopyrazole deriv color equalizer				
IT	Polysiloxanes , biological studies				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (combination of oxydative hair dyes with indole or indoline dyes for improved color equalizing)				
IT	Dyes (direct; combination of oxydative hair dyes with indole or indoline dyes for improved color equalizing)				
IT	Hair preparations (dyes , oxidative; combination of oxydative hair dyes with indole or indoline dyes for improved color equalizing)				
IT	Hair preparations (dyes ; combination of oxydative hair dyes with indole or indoline dyes for improved color equalizing)				
IT	108-46-3, Resorcin, biological studies 120-72-9D, Indole, derivs. 496-15-1D, Indoline, derivs. 591-27-5, m-Aminophenol 608-25-3, 2-Methyl resorcin 1004-74-6, 2,4,5,6-Tetraamino pyrimidine 2835-95-2, 4-Amino-2-hydroxytoluene 2835-99-6, 3-Methyl-4-aminophenol 3131-52-0; 5,6-Dihydroxyindole 6369-59-1 16461-98-6D, 1H-Pyrazole-4,5-diamine, derivs. 16867-03-1, 2-Amino-3-hydroxypyridine 26062-79-3 , Merquat 100 26590-05-6 , Merquat 500 29539-03-5, 5,6-Dihydroxyindoline 83763-47-7 84540-50-1, 2-Chloro-3-amino-6-methylphenol 138937-28-7, 5,6-Dihydroxyindoline hydrobromide 155601-17-5 364343-79-3 668476-71-9 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (combination of oxydative hair dyes with indole or indoline dyes for improved color equalizing)				
IT	26062-79-3 , Merquat 100 26590-05-6 , Merquat 500 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (combination of oxydative hair dyes with indole or				

indoline **dyes** for improved color equalizing)

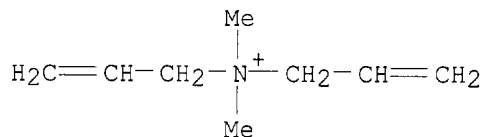
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer
(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

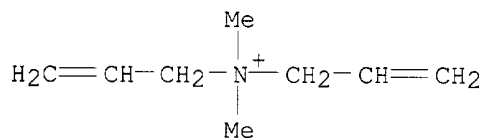
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

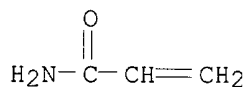


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



L31 ANSWER 2 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:179966 HCAPLUS

DN 140:204801

TI Hair preparations containing **polysiloxanes** and **cyclosiloxanes**

IN Nagai, Hidetaka; Takayama, Aimi

PA Hoya Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004067652	A2	20040304	JP 2002-232945	20020809
PRAI	JP 2002-232945		20020809		

AB This invention relates to hair **dyes** and bleaches which comprise (1) **cyclosiloxanes**, (2) amino-modified silicones, (3) highly polymerized **methypolysiloxanes**, and/or (4) highly polymerized amino-modified silicones to provide smooth hair after treatment. The hair preps. may further comprise amphoteric polymers and/or cationic polymers. For example, a hair **dye** preparation comprised (1) component A containing p-phenylenediamine 1, resorcin 1, ammonia water (28 %) 2, monoethanolamine (80 %) 6, cetostearyl alc. 6, polyoxyethylene cetyl ether 4, polyethylene glycol 5, **decamethylcyclopentasiloxane** 1.5, **aminoethylaminopropylsiloxane-dimethylsiloxane** copolymer 1.5, **methypolysiloxane** 0.2, acrylamide-acrylic acid-dimethyldiallylammonium chloride copolymer 1, and distilled water balance to 100 %; and (2) component B containing H2O2 (35 % solution) 17, cetostearyl alc. 2, polyoxyethylene cetyl ether 0.5, stearyltrimethylammonium chloride 1, sodium stannate 0.1, phosphoric acid q.s. to pH 3.5, and distilled water balance to 100 %.

IC ICM A61K007-06

ICS A61K007-13; A61K007-135

CC 62-3 (Essential Oils and **Cosmetics**)

ST hair **dye** bleach amino contg **polysiloxane** **cyclosiloxane**

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Me; hair **dyes** and bleaches containing **polysiloxanes** and **cyclosiloxanes** and conditioning polymers)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(amino-containing; hair **dyes** and bleaches containing **polysiloxanes** and **cyclosiloxanes** and conditioning polymers)

IT Hair preparations

(bleaches; hair **dyes** and bleaches containing **polysiloxanes** and **cyclosiloxanes** and conditioning polymers)

IT Hair preparations

(**dyes**; hair **dyes** and bleaches containing **polysiloxanes** and **cyclosiloxanes** and conditioning polymers)

IT **Cyclosiloxanes**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair **dyes** and bleaches containing **polysiloxanes** and **cyclosiloxanes** and conditioning polymers)

IT 541-02-6, **Decamethylcyclopentasiloxane** 25136-75-8,

Acrylamide-acrylic acid-dimethyldiallylammonium chloride copolymer 156623-21-1 333974-49-5

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyes and bleaches containing
polysiloxanes and cyclosiloxanes and conditioning
polymers)

IT 25136-75-8, Acrylamide-acrylic acid-dimethyldiallylammonium
chloride copolymer
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyes and bleaches containing
polysiloxanes and cyclosiloxanes and conditioning
polymers)

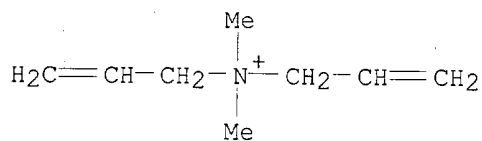
RN 25136-75-8 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

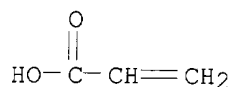
CMF C8 H16 N . Cl



CM 2

CRN 79-10-7

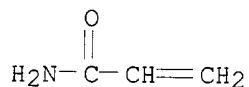
CMF C3 H4 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



L31 ANSWER 3 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:719277 HCAPLUS

DN 139:249961

TI Method of gradual permanent coloring of hair

IN Patel, Jitendra; Newell, Gerald Patrick; Kim, Elizabeth; Pascual, Fe
 Padilla; Fowler, Margie Ann
 PA Unilever Plc, UK; Unilever Nv; Hindustan Lever Limited
 SO PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003074016	A1	20030912	WO 2003-EP2450	20030306
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,				
	FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,				
	KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,				
	MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW,				
	AM, AZ, BY, KG				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,				
	CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,				
	NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,				
	GW, ML, MR, NE, SN, TD, TG				
	US 2003172466	A1	20030918	US 2002-92609	20020307
	US 6709468	B2	20040323		

PRAI US 2002-92609 A 20020307

AB A method for permanently **dyeing** hair which comprises subjecting said hair to a number of treatments, having a set time interval between each two consecutive such treatments, wherein each treatment comprises steps (a) and (b) below: (a) contacting said hair, for a period of about 5 s to about 5 min with a recently made mixture of: (i) part (ai) **dye** intermediates in water at alkaline pH with quaternary ammonium compds.; (ii) part (aia) an oxidizing compound such as hydrogen peroxide in water at acidic pH; (b) rinsing said mixture from said hair with water; and wherein said number of treatments is between about 2 to about 30; and wherein said set time interval between each two consecutive treatments is between about 8 h and 30 days. A two part formulation of a hair **dye** according to above method is disclosed.

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

ST oxidative hair **dye** oxidant

IT Hair preparations

(**dyes**, oxidative; method of gradual permanent coloring of hair)

IT Polyoxyalkylenes, biological studies

Polysiloxanes, biological studies

Quaternary ammonium compounds, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(method of gradual permanent coloring of hair)

IT 83-56-7, 1,5-Dihydroxynaphthalene 84-87-7, 1-Naphthol-4-sulfonic acid
 87-02-5, 1-Hydroxy-6-aminonaphthalene-3-sulfonic acid 87-66-1,
 Pyrogallol 89-25-8, 1-Phenyl-3-methyl-5-pyrazolone 89-57-6,
 5-Aminosalicylic acid 89-83-8, Thymol 90-15-3, 1-Naphthol 90-52-8,
 6-Methoxy-8-aminoquinoline 92-44-4, 2,3-Dihydroxynaphthalene 95-55-6,
 o-Aminophenol 95-70-5, p-Toluenediamine 95-86-3, 2,4-Diaminophenol
 95-88-5, 4-Chlororesorcinol 101-54-2, N-Phenyl-p-phenylenediamine
 106-50-3, p-Phenylene diamine, biological studies 108-45-2,
 m-Phenylenediamine, biological studies 108-46-3, Resorcinol, biological
 studies 120-80-9, Catechol, biological studies 123-30-8, p-Aminophenol
 124-43-6 141-86-6, 2,6-Diaminopyridine 150-75-4, p-Methylaminophenol

533-31-3, 3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene
 537-65-5, 4,4'-Diaminodiphenylamine 575-38-2, 1,7-Dihydroxynaphthalene
 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, m-Aminophenol 605-37-8,
 2,3-Dihydroxy-1,4-naphthoquinone 608-25-3, 2-Methylresorcinol
 615-66-7, 2-Chloro-p-phenylenediamine 823-40-5, 2,6-Diaminotoluene
 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 4-Hydroxy-2,5,6-
 triaminopyrimidine 1124-09-0, 2,4,5-Trihydroxytoluene 1812-53-9,
 Dicetyl dimonium chloride 1953-54-4, 5-Hydroxyindole 2359-53-7
 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2835-95-2,
 6-Methyl-3-aminophenol 2835-96-3, 2-Methyl-p-aminophenol 2835-99-6,
 3-Methyl-p-aminophenol 3085-95-8 3131-52-0, 5,6-Dihydroxyindole
 3313-92-6, Sodium percarbonate 4664-16-8, 2,6-Dihydroxy-4-methylpyridine
 4928-43-2, 2-Dimethylamino-5-aminopyridine 5697-02-9,
 1-Acetoxy-2-methylnaphthalene 6201-65-6, 2-Chlororesorcinol 6941-70-4
 7207-40-1 7218-02-2, 2,6-Dimethyl-p-phenylenediamine 7228-00-4
 7469-77-4, 2-Methyl-1-naphthol 7575-35-1 7722-84-1, Hydrogen peroxide,
 biological studies 9002-89-5D, Poly(vinyl alcohol), quaternized
 9002-98-6 9003-39-8, Poly(vinylpyrrolidone) 9003-47-8,
 Poly(vinylpyridine) 10288-36-5, 5-Hydroxy-1,4-benzodioxane 11138-47-9,
 Sodium perborate 14268-66-7, 3,4-Methylenedioxyaniline 14572-93-1
 16867-03-1, 2-Amino-3-hydroxypyridine 19298-14-7 **25154-86-3**,
 Poly(dimethylaminoethylmethacrylate) **25154-86-3D**, Poly
 (dimethylaminoethylmethacrylate), quaternized 25322-68-3, Polyethylene
 glycol 26021-57-8, 6-Hydroxybenzomorpholine **26062-79-3**,
 Poly(dimethyldiallylammonium chloride) 26062-81-7,
 Poly(diallylpiperidinium chloride) 26913-06-4, Poly[imino(1,2-
 ethanediyl)] 29785-47-5, 2-Methoxymethyl-p-aminophenol; 39489-79-7
 40771-26-4, 1,5-Dihydroxy-1,2,3,4-tetrahydronaphthalene; 42485-84-7,
 2-Ethylamino-p-cresol 45514-38-3, 4,5-Diamino-1-methylpyrazole
 53222-92-7, 2-Methyl-3-aminophenol 53233-89-9, 5-Chloro-2,3-
 dihydroxypyridine 55302-96-0 60268-17-9 70643-19-5,
 2-(2,4-Diaminophenoxy)ethanol 71500-41-9 71500-42-0 73793-80-3,
 2-Hydroxymethyl-p-phenylenediamine 76619-89-1, 5-Methyl-3-aminophenol
 80467-77-2, N-(2-Hydroxypropyl)-p-phenylenediamine 81329-90-0
 81892-72-0 83763-47-7 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine
 84540-48-7, 2,4-Diaminophenoxyacetic acid 84540-50-1,
 2-Chloro-6-methyl-3-aminophenol 85679-78-3, 3,5-Diamino-2,6-
 dimethoxypyridine 86817-42-7 87582-56-7, Poly(vinylpyridinium
 chloride) 90817-34-8, 3-Amino-2-methylamino-6-methoxypyridine
 90817-35-9 94082-77-6 97902-51-7 97902-52-8, 2-Isopropyl-p-
 phenylenediamine 104333-03-1, 3-Amino-5-hydroxy-2,6-dimethoxypyridine
 104333-09-7 104752-50-3 104903-49-3 110102-86-8 110952-46-0
 115423-86-4 117907-42-3 119004-91-0 129697-50-3 137290-78-9,
 5-Amino-4-methoxy-2-methylphenol 141614-04-2 181777-19-5
 260981-02-0, N-2-Methoxyethyl-p-phenylenediamine 359866-36-7
 461424-71-5 461424-72-6 **596092-84-1** 596092-86-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (method of gradual permanent coloring of **hair**)

IT **25154-86-3**, Poly(dimethylaminoethylmethacrylate)
25154-86-3D, Poly(dimethylaminoethylmethacrylate), quaternized
26062-79-3, Poly(dimethyldiallylammonium chloride)
596092-84-1

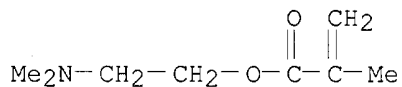
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (method of gradual permanent coloring of **hair**)

RN 25154-86-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer
 (9CI) (CA INDEX NAME)

CM 1

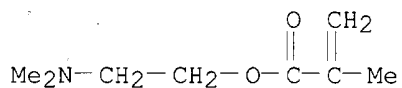
CRN 2867-47-2
CMF C8 H15 N O2



RN 25154-86-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer
(9CI) (CA INDEX NAME)

CM 1

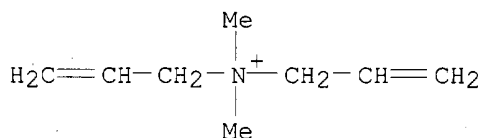
CRN 2867-47-2
CMF C8 H15 N O2



RN 26062-79-3 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer
(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl

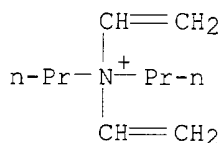


● Cl⁻

RN 596092-84-1 HCAPLUS
CN 1-Propanaminium, N,N-diethenyl-N-propyl-, chloride, homopolymer (9CI) (CA
INDEX NAME)

CM 1

CRN 596092-83-0
CMF C10 H20 N . Cl



● Cl⁻

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 4 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:488547 HCAPLUS

DN 139:57634

TI Use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair preparations

IN Ehlert, Manuela; Hoeffkes, Horst; Hollenberg, Detlef

PA Henkel Kommanditgesellschaft Auf Aktien, Germany

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

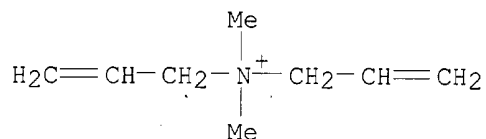
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PI	EP 1321131	A2	20030625	EP 2002-27905	20021213
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	DE 10163803	A1	20030703	DE 2001-10163803	20011222
PRAI	DE 2001-10163803	A	20011222		
OS	MARPAT 139:57634				
AB	The invention concerns the use of nitrogen-containing polysiloxanes , polystyrene sulfonate and pyrrolidone as color protection agents in hair preps.; preferred component is amodimethicone. Other ingredients are natural or synthetic cationic polymers, anionic polymers, protein hydrolyzates, cationic surfactants, and vitamins. Thus a shampoo contained (weight/weight%): Flexan 130 1.0; paraffin oil 3.0; Lanette O 3.0; Foryl 100 0.2; Cutina CP 0.8; beeswax 0.05; PHB methylester 0.2; PHB ethylester 0.1; phenoxyethanol 0.6; Dehyquart A-CA 3.0; glucose 5.0; chamomile extract 0.6; Culminal MHPC 20.0; perfume 0.15; water to 100; pH ca. 3.5.				
IC	ICM A61K007-13				
	ICS D06P003-00				
CC	62-3 (Essential Oils and Cosmetics)				
IT	Onium compounds				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl) imidazolium, Me sulfates; use of nitrogen-containing polysiloxanes , polystyrene sulfonate and/or pyrrolidone as color protection agents in hair preps.)				
IT	Polysiloxanes , biological studies				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) ([(aminoethyl)amino]propyl hydroxy, di-Me; use of nitrogen-containing polysiloxanes , polystyrene sulfonate and/or pyrrolidone as				

- color protection agents in hair prepsns.)
- IT Surfactants
(anionic; use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT Surfactants
(cationic; use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT Hair preparations
(conditioners; use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT Hair preparations
(**dyes**; use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT **Dyes**
(fastness; use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT Beeswax
Fading
Hair preparations
Molecular weight
Shampoos
(use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT Protein hydrolyzates
Vitamins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in hair prepsns.)
- IT 50-70-4, Sorbit, biological studies 50-99-7, D-Glucose, biological studies 57-48-7, Fructose, biological studies 57-50-1, Saccharose, biological studies 58-85-5, Vitamin H 63-42-3, Lactose 81-13-0, Panthenol 112-02-7, Dehyquart A-CA 115-77-5, Pentaerythritol, biological studies 528-50-7, Cellobiose 616-45-5, Pyrrolidone 1406-18-4, Vitamin E 2152-56-9, Arabinitol 2687-94-7, Surfadone LP 100 2687-96-9, Surfadone LP 300 3615-41-6, Rhamnose 7643-75-6, L-Arabitol 9000-30-0, Guar gum 9003-39-8, Polyvinylpyrrolidone 9004-62-0, Hydroxyethylcellulose 9012-76-4, Chitosan **26590-05-6**, Polyquaternium 7 32208-04-1, Dehyquart F75 **40623-73-2** 50851-57-5 52467-63-7, Arquad 316 **55008-57-6**, Gafquat 755N 58846-77-8, Plantacare 818 64519-82-0, Isomalt 81859-24-7, Polymer JR 400 86893-19-8, Glucamate DOE 120 89492-09-1, Flexan 130 148093-12-3, Sepigel 305 188571-05-3, Gluadin WQ 212956-67-7, Plantacare 1200 225659-54-1, Dehyquart L 80 289471-15-4, Dow Corning 949 357263-71-9, Honeyquat 50 371165-12-7, Plantacare 810UP 371165-83-2, Promois Milk-CAQ 473664-54-9, Salcare SC 96
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in **hair** prepsns.)
- IT **26590-05-6**, Polyquaternium 7 **40623-73-2** **55008-57-6**, Gafquat 755N
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of nitrogen-containing **polysiloxanes**, polystyrene sulfonate and/or pyrrolidone as color protection agents in **hair**

prepns.)
RN 26590-05-6 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

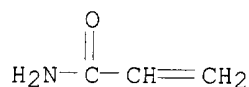
CRN 7398-69-8
CMF C8 H16 N . Cl



● Cl⁻

CM 2

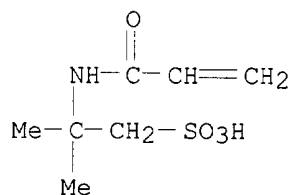
CRN 79-06-1
CMF C3 H5 N O



RN 40623-73-2 HCAPLUS
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, polymer
with 2-propenamide (9CI) (CA INDEX NAME)

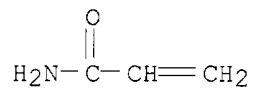
CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S



CM 2

CRN 79-06-1
CMF C3 H5 N O



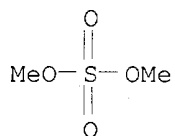
RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



CM 2

CRN 30581-59-0

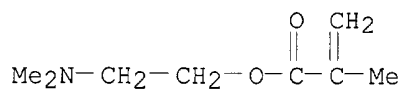
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

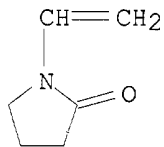
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O

L31 ANSWER 5 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:257773 HCAPLUS

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

DN 138:275938
 TI Oxidative hair **dye** or hair bleach compositions containing
 sucrose fatty acid esters
 IN Kojima, Atsushi; Nagai, Hideki; Tsuge, Satoshi
 PA Hoyu Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003095902	A2	20030403	JP 2001-298321	20010927
PRAI	JP 2001-298321		20010927		

AB The invention relates to an oxidative hair **dye** or hair bleach composition consisting of alkali-containing 1st agent and oxidizing agent-containing

2nd agent for use by mixing together just before the application, wherein the 1st and/or 2nd agent contains (1) a sucrose fatty acid ester and (2) poly(dimethylmethylenepiperidinium chloride), dimethyldiallylammonium chloride-acrylamide copolymer and/or dimethyldiallylammonium chloride-acrylic acid copolymer. The hair composition of the present invention provides smooth and shiny hair. A hair bleach 1st agent containing ammonia solution (28%) 2, monoethanolamine (80%) 6, starch syrup 1.2, lanolin fatty acid aminopropylethyldimethylammonium ethylsulfate 0.5, polyoxyethylene octyl dodecyl ether 10, polyoxyethylene alkyl ethers 15, ethanol 15, anhydrous sodium sulfite 0.5, 0.5, ethylenediaminehydroxyethyltriacetate sodium salt monohydrate 0.5, fragrance q.s., and water balance to 100 %, and a 2nd agent containing H2O2 (35%) 17, cetanol 2, polyoxyethylene stearyl ether 0.4, sucrose stearate 2, dimethyldiallylammonium chloride-acrylic acid copolymer 0.5, **dimethylpolysiloxane** 1, stearyltrimethylammonium chloride 0.5, phenacetin 0.1, phosphoric acid q.s., to pH 3.5, and water balance to 100 % were formulated.

IC ICM A61K007-135

ICS A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

ST sucrose fatty acid ester oxidative hair **dye** bleach

IT Hair preparations

(bleaches; oxidative hair **dye** or hair bleach compns. containing sucrose fatty acid esters and specified polymers)

IT Hair preparations

(**dyes**, oxidative; oxidative hair **dye** or hair bleach compns. containing sucrose fatty acid esters and specified polymers)

IT Fatty acids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (esters, sucrose; oxidative hair **dye** or hair bleach compns. containing sucrose fatty acid esters and specified polymers)

IT 106-50-3, p-Phenylenediamine, biological studies 141-43-5, Monoethanolamine, biological studies 7664-41-7, Ammonia, biological studies 7722-84-1, Hydrogen peroxide, biological studies

26062-79-3 26590-05-6, Acrylamide-

Dimethyldiallylammonium chloride copolymer 37318-31-3, Sucrose stearate **53694-17-0**, Acrylic acid-dimethyldiallylammonium chloride copolymer

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair **dye** or hair bleach

compns. containing sucrose fatty acid esters and specified polymers)

IT **26062-79-3 26590-05-6**, Acrylamide-

Dimethyldiallylammonium chloride copolymer **53694-17-0**, Acrylic

acid-dimethyldiallylammonium chloride copolymer

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative **hair dye** or **hair bleach**

compns. containing sucrose fatty acid esters and specified polymers)

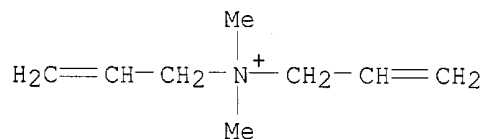
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer
(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

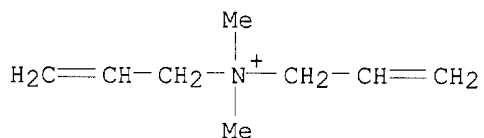
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

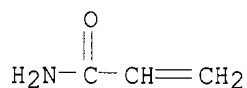


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



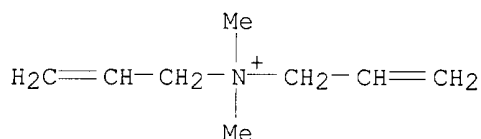
RN 53694-17-0 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

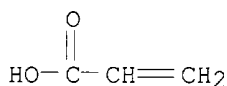


● Cl⁻

CM 2

CRN 79-10-7

CMF C3 H4 O2



L31 ANSWER 6 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:222140 HCAPLUS
 DN 138:242890
 TI Compositions and method for targeted controlled delivery of active ingredients and sensory markers onto hair, skin, and fabric
 IN Shefer, Adi; Shefer, Samuel David
 PA USA
 SO U.S. Pat. Appl. Publ., 20 pp., Cont.-in-part of U.S. Ser. No. 771,752.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003053974	A1	20030320	US 2002-222054	20020816
	US 2002146379	A1	20021010	US 2001-771752	20010129
	US 6491902	B2	20021210		
	WO 2004016232	A1	20040226	WO 2003-US22143	20030716
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,				

CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

EP 1396260 A1 20040310 EP 2003-255007 20030813

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRAI US 2001-771752 A2 20010129

US 2002-222054 A 20020816

OS MARPAT 138:242890

AB The present invention is a controlled delivery system that can be incorporated in hair, skin, and fabric care products such as shampoos, conditioners, hair styling products, lotions, creams, liquid laundry detergents, fabric softener, and other hair, skin, and fabric care products to effectively deliver a broad range of active agents and sensory markers onto the hair, skin, and fabric. The system also prolongs the release rate of the active agents or sensory markers over an extended period of time, or provides heat triggered release of the active agents and yields a high impact fragrance "burst" upon blow drying the hair, ironing the fabric, or other types of heat treatment. The controlled delivery system of the present invention is a nano-sphere, having an average sphere diameter of from about 0.01 μ to about 10 μ . The nano-sphere comprises hydrophobic materials, cationic conditioning agent or, cationic conditioning agent in conjunction with a cationic charge booster to assist in adhering the spheres onto hair, skin, and fabric. The invention further relates to a controlled delivery system where the release rate of the active ingredients is synchronized with that of a sensory marker to convey to the consumer the product performance. Nanosphere delivery systems for skin were prepared comprising water 60, Retinol 10, Incroquat Behenyl HE 10, and Performa V-216 20%.

IC ICM A61K007-06

ICS A61K007-11

NCL 424070110; 424070120; 424070170

CC 62-4 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 40

IT Analgesics

Anesthetics

Anti-inflammatory agents

Antibacterial agents

Antibiotics

Antioxidants

Attractants

Bath preparations

Cosmetics

Drugs

Dyes

Emulsifying agents

Fabric softeners

Fungicides

Hair preparations

Humectants

Immunomodulators

Insect repellents

Lubricants

Nutrients

Ozocerite

Particle size

Perfumes

Pigments, nonbiological

Preservatives

Radical scavengers

Reducing agents

Shampoos

Skin

Stabilizing agents

Sunscreens

Surfactants

Textiles

(compns. and method for targeted controlled delivery of active ingredients and sensory markers onto hair, skin, and fabric)

IT Candelilla wax

Canola oil

Ceramides

Corn oil

Elastins

Enzymes, biological studies

Glycerides, biological studies

Jojoba oil

Lard

Mucopolysaccharides, biological studies

Oils

Peanut oil

Polyamides, biological studies

Polyamines

Polymers, biological studies

Polysiloxanes, biological studies

Quaternary ammonium compounds, biological studies

Retinoids

Safflower oil

Soybean oil

Sunflower oil

Tall oil

Vitamins

Waxes

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(compns. and method for targeted controlled delivery of active ingredients and sensory markers onto hair, skin, and fabric)

IT Hair preparations

(**dyes**; compns. and method for targeted controlled delivery of active ingredients and sensory markers onto hair, skin, and fabric)

IT 106-24-1, Geraniol 112-02-7, Cetyl trimethylammonium chloride

9002-88-4, Polyethylene 9002-98-6 9004-61-9, Hyaluronic acid

9004-61-9D, Hyaluronic acid, salts **9010-77-9**, Ethylene-acrylic

acid copolymer 26336-38-9, Polyethyleneamine 26913-06-4,

Poly[imino(1,2-ethanediyl)] 62229-50-9, Epidermal growth factor

98616-25-2, Polyquaternium 24 173833-36-8, Quaternium-82

220828-91-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(compns. and method for targeted controlled delivery of active ingredients and sensory markers onto **hair**, skin, and fabric)

IT **9010-77-9**, Ethylene-acrylic acid copolymer **98616-25-2**,

Polyquaternium 24

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

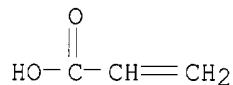
(compns. and method for targeted controlled delivery of active ingredients and sensory markers onto **hair**, skin, and fabric)

RN 9010-77-9 HCAPLUS

CN 2-Propenoic acid, polymer with ethene (9CI) (CA INDEX NAME)

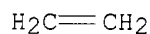
CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 74-85-1
CMF C2 H4



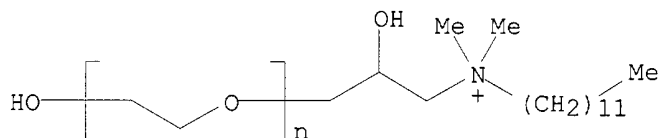
RN 98616-25-2 HCAPLUS
CN Cellulose, ether with α -[3-(dodecyldimethylammonio)-2-hydroxypropyl]-
 ω -hydroxypoly(oxy-1,2-ethanediyl) chloride (9CI) (CA INDEX NAME)

CM 1

CRN 169102-72-1
CMF (C2 H4 O)_n C17 H38 N O2 . x Unspecified

CM 2

CRN 168810-59-1
CMF (C2 H4 O)_n C17 H38 N O2
CCI PMS



CM 3

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L31 ANSWER 7 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:196415 HCAPLUS
DN 138:226357
TI Hair bleach or **dye** compositions containing volatile alkalies,
ester surfactants, and triglycerides or alcohols
IN Kojima, Atsushi; Kanda, Naoki
PA Hoyu Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003073243	A2	20030312	JP 2001-268389	20010905
PRAI	JP 2001-268389		20010905		

AB The compns., which are used by mixing with oxidizing agents, contain volatile alkalies, nonionic ester surfactants, triglyceride oils and/or C16-25 linear alkyl alcs., H2O, and optional **dyes**. The compns. show reduced irritating odor. A hair bleach 1st agent was prepared from aqueous NH3 0.70, cetanol 5.0, high-d.p. silicone 1.0, jojoba oil 3.0, polyoxyethylene monostearate 3.0, perfume, and H2O to 100 weight%.

IC ICM A61K007-135
 ICS A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

ST hair bleach **dye** volatile alkali surfactant; ester nonionic surfactant hair bleach **dye**; triglyceride oil hair bleach **dye**; linear higher alc hair bleach **dye**

IT Polyelectrolytes
 (amphoteric, addnl. components; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Hair preparations
 (bleaches; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Polyelectrolytes
 (cationic, addnl. components; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Hair preparations
 (**dyes**; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Fats and Glyceridic oils, biological studies
 Jojoba oil
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Alcohols, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (long-chain; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Surfactants
 (nonionic; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (oils, addnl. components; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT Bases, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (volatile; hair bleaches or **dyes** containing volatile alkalies, ester surfactants, and triglyceride oils or higher linear alcs.)

IT 111774-28-8 147398-76-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(addnl. component; **hair** bleaches or **dyes** containing
volatile alkalies, ester surfactants, and triglyceride oils or higher
linear alcs.)

IT 112-92-5, Stearyl alcohol 661-19-8, Behenyl alcohol 7664-41-7,
Ammonia, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair bleaches or **dyes** containing volatile alkalies, ester
surfactants, and triglyceride oils or higher linear alcs.)

IT 9004-99-3, Polyoxyethylene monostearate

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(surfactant; hair bleaches or **dyes** containing volatile alkalies,
ester surfactants, and triglyceride oils or higher linear alcs.)

IT **111774-28-8 147398-76-3**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(addnl. component; **hair** bleaches or **dyes** containing
volatile alkalies, ester surfactants, and triglyceride oils or higher
linear alcs.)

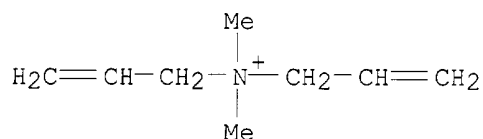
RN 111774-28-8 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-
propen-1-aminium chloride, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 9004-62-0

CMF C2 H6 O2 . x Unspecified

CM 3

CRN 9004-34-6

CMF Unspecified

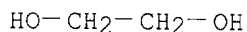
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 107-21-1

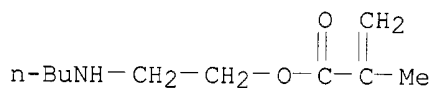
CMF C2 H6 O2



RN 147398-76-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(butylamino)ethyl ester, polymer with
 2-hydroxypropyl 2-propenoate and N-octyl-2-propenamide (9CI) (CA INDEX
 NAME)

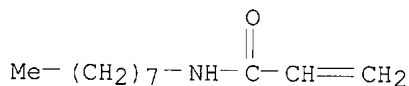
CM 1

CRN 24171-27-5
 CMF C10 H19 N O2



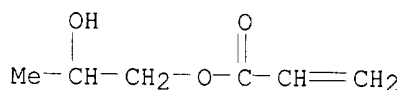
CM 2

CRN 10124-68-2
 CMF C11 H21 N O



CM 3

CRN 999-61-1
 CMF C6 H10 O3



L31 ANSWER 8 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:594644 HCAPLUS
 DN 137:158996
 TI A polymer-based controlled delivery system for hair care products
 IN Shefer, Adi; Shefer, Shmuel David
 PA Salvona LLC, USA
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002060399	A1	20020808	WO 2002-US907	20020114
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002146379 A1 20021010 US 2001-771752 20010129

US 6491902 B2 20021210

EP 1365731 A1 20031203 EP 2002-701961 20020114

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI US 2001-771752 A 20010129

WO 2002-US907 W 20020114

AB The present invention is a controlled delivery system that can be incorporated in hair care products such as shampoos, conditioners, hair styling products, and other hair care products to effectively deliver a broad range of active agents and sensory markers, such as fragrances or cooling agents onto the hair. The system also prolongs the release rate of the active agents or sensory markers over an extended period of time, or provides heat triggered release of the active agents and yields a high impact fragrance "burst" upon blow drying the hair or other types of heat treatment. The controlled delivery system of the present invention is a nanoparticle, having an average particle diameter of from about 0.01 μ to about 10 μ . The nanoparticle comprises hydrophobic polymers and copolymers, cationic charge boosters in conjunction with cationic surface-active conditioning agents that assist in adhering the particles onto hair. The invention further relates to a controlled delivery system where the release rate of the active ingredients is synchronized with that of a sensory marker to convey to the consumer the product performance. For example, nanoparticles were prepared from 68.9% water, 15% polyethylene, 15% fragrance, 1% Incroquat Behenyl HE, and 0.1% Lupasol PR 815. The nanoparticles obtained were incorporated into a hair conditioner base; they deposit and adhere onto hair and are not washed off during the rinse process.

IC ICM A61K007-06

ICS A61K007-11; A61K007-08

CC 62-3 (Essential Oils and **Cosmetics**)

IT Hair preparations

(**dyes**; polymer-based controlled delivery system for hair care products)

IT Analgesics

Anesthetics

Anti-inflammatory agents

Antibacterial agents

Antibiotics

Antioxidants

Attractants

Disinfectants

Drugs

Dyes

Emulsifying agents

Fungicides

Heat treatment

Humectants

Immunomodulators

Nanoparticles

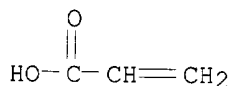
Nutrients

Odor and Odorous substances
 Particle size
 Particles
 Perfumes
 Pigments, nonbiological
 Preservatives
 Radical scavengers
 Repellents
 Shampoos
 Stabilizing agents
 Surfactants
 UV stabilizers

- (polymer-based controlled delivery system for hair care products)
- IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (wax copolymers; polymer-based controlled delivery system for hair care products)
- IT 57-11-4, Stearic acid, biological studies 112-02-7, Cetyl trimethylammonium chloride 1406-18-4, Vitamin E 9002-88-4, Polyethylene 9002-98-6 9004-61-9, Hyaluronic acid 9004-61-9D, Hyaluronic acid, salts 9004-87-9, Polyoxyethylene isooctylphenyl ether 9005-64-5, Tween 20 **9010-77-9**, Acrylic acid-ethylene copolymer 9016-45-9, Polyoxyethylene nonylphenyl ether 24937-78-8, Ethylene-vinyl acetate copolymer 25322-68-3D, Polyethylene glycol, fatty acid esters and fatty alc. ethers 26336-38-9, Polyvinylamine 62229-50-9, Epidermal growth factor **98616-25-2**, Polyquaternium 24 106392-12-5, Poloxamer 173833-36-8, Quaternium 82 220828-91-1, Incroquat Behenyl HE 478156-23-9D, Isooctylphenol-formaldehyde polymer, polyethoxylated
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (polymer-based controlled delivery system for **hair** care products)
- IT **9010-77-9**, Acrylic acid-ethylene copolymer **98616-25-2**, Polyquaternium 24
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (polymer-based controlled delivery system for **hair** care products)
- RN 9010-77-9 HCAPLUS
- CN 2-Propenoic acid, polymer with ethene (9CI) (CA INDEX NAME)

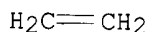
CM 1

CRN 79-10-7
 CMF C3 H4 O2



CM 2

CRN 74-85-1
 CMF C2 H4



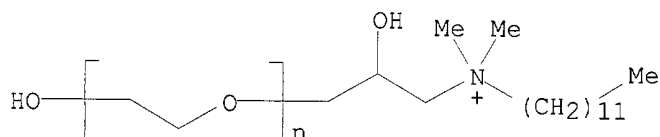
RN 98616-25-2 HCAPLUS
 CN Cellulose, ether with α -[3-(dodecyldimethylammonio)-2-hydroxypropyl]-
 ω -hydroxypoly(oxy-1,2-ethanediyl) chloride (9CI) (CA INDEX NAME)

CM 1

CRN 169102-72-1
 CMF (C2 H4 O)_n C17 H38 N O2 . x Unspecified

CM 2

CRN 168810-59-1
 CMF (C2 H4 O)_n C17 H38 N O2
 CCI PMS



CM 3

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 9 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:574879 HCAPLUS
 DN 137:145180
 TI Cosmetic composition for treating keratinous materials comprising a
 cationic poly(alkyl) vinyl lactam polymer and a protecting or conditioning
 agent
 IN Cottard, Francois; De La Mettrie, Roland
 PA L'Oreal, Fr.
 SO PCT Int. Appl., 66 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058646	A1	20020801	WO 2002-FR251	20020122
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				

CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

FR 2820030 A1 20020802 FR 2001-1108 20010126
 FR 2820030 B1 20030411
 EP 1357884 A1 20031105 EP 2002-700360 20020122

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI FR 2001-1108 A 20010126
 WO 2002-FR251 W 20020122

AB The invention concerns a composition for treating keratinous materials, in particular hair, comprising, in a physiolo. and in particular cosmetically acceptable medium, at least a protecting and conditioning agent, and addnl. at least a cationic poly(alkyl) vinyl lactam polymer. Said combinations enable to improve deposition of the agent protecting or conditioning the keratinous materials and the cosmetic properties. A shampoo contained ethoxylated sodium lauryl sulfate 17, 30% cocoyl betaine 2.5, Polymer ACP-1234 (a quaternary ammonium acrylic polymer) 1, copra acid monoisopropanolamide 0.6, Uvinul MS40 0.1, perfume, preservatives and water q.s 100 g.

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (Me Ph; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (Me vinyl; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (alkoxylated; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (alkyl; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (aryl; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT Acrylic polymers, biological studies
 Ceramides
Cyclosiloxanes
 Oxides (inorganic), biological studies
 Paraffin oils
 Polyolefins
Polysiloxanes, biological studies
 Vitamins
 Waxes
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, hydroxyalkyl Me; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Ph; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT Hair preparations

(**dyes**; cosmetic composition for treating keratinous materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT 69-72-7D, Salicylic acid, salts 76-22-2D, Camphor, derivs. 79-10-7D, Acrylic acid, di Ph derivs. 88-12-0D, polymers with cocoalkyl ammonium dimethylaminopropylmethacrylamides 95-14-7D, 1H-Benzotriazole, sulfonic derivs. 118-60-5, Octyl salicylate 118-92-3D, Anthranilic acid, salts 119-61-9D, Benzophenone, sulfonic derivs. 120-46-7D, Dibenzoylmethane, derivs. 131-57-7, 2-Hydroxy-4-methoxybenzophenone 150-13-0D, p-Aminobenzoic acid, salts 271-89-6D, Benzofuran, derivs. 273-53-0D, Benzoxazole, sulfonic derivs. 290-87-9D, 1,3,5-Triazine, hydroxyphenyl derivs. 621-82-9D, Cinnamic acid, esters 4065-45-6, Uvinul ms 40 4122-04-7D, Aminotriazine, dialkyl derivs. reaction product with resorcinol 5205-93-6D, cocoalkyl ammonium derivs., polymers with vinylpyrrolidone and dimethylaminopropylmethacrylamide 5466-77-3, 2-Ethylhexyl 4-methoxycinnamate 6197-30-4, Octocrylene 7400-08-0D, p-Hydroxycinnamic acid, salts 9000-30-0, Guar gum 9000-30-0D, Guar gum, reaction products with epoxypolytrimethylammonium 9003-28-5, Polybutene 9003-28-5D, Polybutene, hydrogenated 9003-29-6, Polybutene 9003-29-6D, Polybutene, hydrogenated 9003-39-8D, Polyvinylpyrrolidone, quaternary ammonium derivs. 9004-34-6D, Cellulose, quaternary derivs. 9004-62-0D, Hydroxyethyl cellulose, reaction products with epoxides 9004-82-4, Ethoxylated sodium lauryl sulfate 9016-00-6, **Polydimethylsiloxane** 11138-66-2, Xanthan gum 15087-24-8D, Benzylidene camphor, sulfonic derivs. 17301-53-0, Behenyltrimethylammonium chloride **26590-05-6**, Acrylamide-Diallyldimethylammonium chloride copolymer 27538-35-8, Ethyl urocanate 28791-69-7 29383-23-1D, Vinylimidazole, polymers 31900-57-9, **Polydimethylsiloxane** 34227-83-3 34354-88-6 37309-58-3, Polydecene 37309-58-3D, Polydecene, hydrogenated 54482-09-6 87246-72-8 96673-02-8 110483-07-3 129426-19-3 144653-38-3 144653-39-4 149591-38-8 150177-00-7 155633-54-8 245654-94-8 **306769-69-7 306769-73-3** 444572-28-5, ACP 1234

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic composition for treating **keratinous** materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

IT **26590-05-6**, Acrylamide-Diallyldimethylammonium chloride copolymer **306769-69-7 306769-73-3**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic composition for treating **keratinous** materials comprising cationic poly(alkyl) vinyl lactam polymer and protecting or conditioning agent)

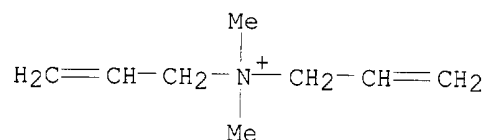
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

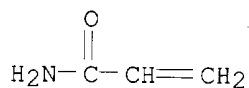
CMF C8 H16 N . Cl



CM 2

CRN 79-06-1

CMF C3 H5 N O



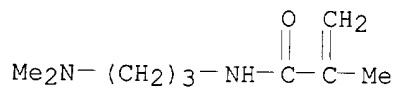
RN 306769-69-7 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 5205-93-6

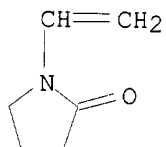
CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O

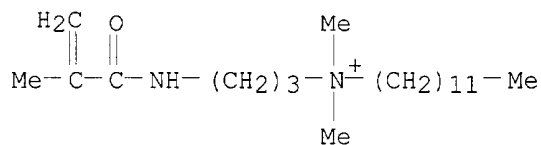


CM 3

CRN 306769-68-6
CMF C21 H43 N2 O . C7 H7 O3 S

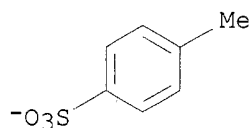
CM 4

CRN 129684-48-6
CMF C21 H43 N2 O



CM 5

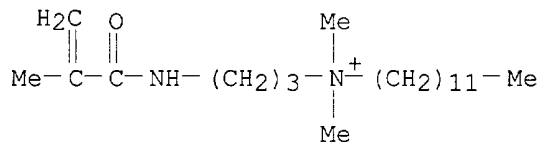
CRN 16722-51-3
CMF C7 H7 O3 S



RN 306769-73-3 HCAPLUS
CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(2-methyl-1-oxo-2-propenyl)amino]propyl]-, chloride, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

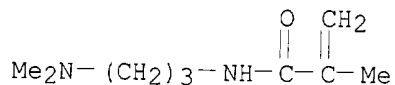
CM 1

CRN 126758-30-3
CMF C21 H43 N2 O . Cl



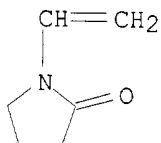
CM 2

CRN 5205-93-6
CMF C9 H18 N2 O



CM 3

CRN 88-12-0
CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 10 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:553059 HCAPLUS
DN 137:98675
TI Hair **dye** composition comprising direct **dyes**,
quaternary ammonium compounds, and cationic polymers
IN Grit, Mustafa
PA Goldwell GmbH, Germany
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1224927	A1	20020724	EP 2002-1025	20020117
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	DE 10101946	A1	20020801	DE 2001-10101946	20010117
	JP 2002249419	A2	20020906	JP 2002-5607	20020115
PRAI	DE 2001-10101946	A	20010117		
AB	The invention concerns hair dyes that contain direct dyes , long-chain quaternary ammonium compds., cationic polymers, nonionic, amphoteric or zwitterionic polymers, ethanol, propanol or isopropanol and water. The dyes are packaged in a transparent container. Thus a dye contained (weight/weight%): dimethicone copolyol 1.50; cetrimonium chloride 0.80; ethanol 15.00; polyvinylpyrrolidone 0.50; propylene carbonate 15.00; lactic acid (90%) 5.00; sodium hydroxide (32%) 0.20; polyquaternium 6 0.60; quaternary dimethylaminoethylmethacrylate homopolymer 3.50; Acid Orange 7 0.15; Acid Yellow 3 0.10; Acid Violet 43 0.25; water to 100.				
IC	ICM A61K007-13				
CC	62-4 (Essential Oils and Cosmetics)				

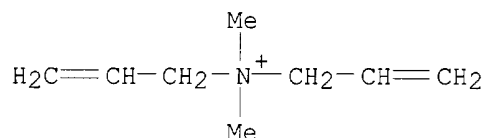
ST direct hair **dye** compn quaternary ammonium compd cationic polymer
IT Polyelectrolytes
(amphoteric; hair **dye** composition comprising direct **dyes**
, quaternary ammonium compds., and cationic polymers)
IT Polyelectrolytes
(cationic; hair **dye** composition comprising direct **dyes**,
quaternary ammonium compds., and cationic polymers)
IT Polyoxyalkylenes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, Me hydrogen **polysiloxane**-; hair **dye** composition
comprising direct **dyes**, quaternary ammonium compds., and
cationic polymers)
IT **Polysiloxanes**, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, Me hydrogen, polyoxyalkylene-; hair **dye** composition
comprising direct **dyes**, quaternary ammonium compds., and
cationic polymers)
IT **Dyes**
(direct; hair **dye** composition comprising direct **dyes**,
quaternary ammonium compds., and cationic polymers)
IT Hair preparations
(**dyes**; hair **dye** composition comprising direct
dyes, quaternary ammonium compds., and cationic polymers)
IT Transparency
Viscosity
(hair **dye** composition comprising direct **dyes**, quaternary
ammonium compds., and cationic polymers)
IT Polymers, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair **dye** composition comprising direct **dyes**, quaternary
ammonium compds., and cationic polymers)
IT Quaternary ammonium compounds, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(long-chain; hair **dye** composition comprising direct **dyes**
, quaternary ammonium compds., and cationic polymers)
IT Polyelectrolytes
(zwitterionic; hair **dye** composition comprising direct **dyes**
, quaternary ammonium compds., and cationic polymers)
IT 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological
studies 71-23-8, Propanol, biological studies 108-32-7, Propylene
carbonate 112-02-7, Cetrimonium chloride 112-03-8, Stearyltrimethyl
ammonium chloride 632-99-5, Basic Violet 14 633-96-5, Acid Orange 7
2784-89-6, HC-Red 1 4065-45-6, Benzophenone-4 4430-18-6, Acid Violet
43 8004-92-0, Acid Yellow 3 9003-39-8, Polyvinylpyrrolidone
25086-89-9, Vinylacetate-vinylpyrrolidone copolymer **26062-79-3**,
Polyquaternium 6 **26161-33-1** 26381-41-9, Basic Brown 16
68123-13-7, Basic Blue 99 68391-30-0, Basic Red 76 68391-31-1, Basic
Yellow 57 81859-24-7, Polyquaternium-10 **92183-41-0**,
Polyquaternium-4 473664-54-9, Salcare SC 96
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair **dye** composition comprising direct **dyes**,
quaternary ammonium compds., and cationic polymers)
IT **26062-79-3**, Polyquaternium 6 **26161-33-1**
92183-41-0, Polyquaternium-4
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair **dye** composition comprising direct **dyes**,
quaternary ammonium compds., and cationic polymers)
RN **26062-79-3** HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer

(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

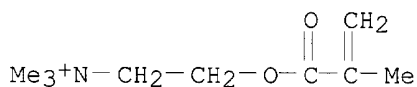
RN 26161-33-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



● Cl⁻

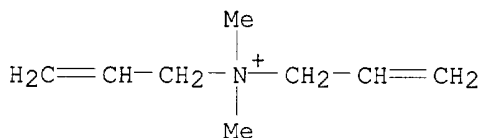
RN 92183-41-0 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 9004-62-0
CMF C2 H6 O2 . x Unspecified

CM 3

CRN 9004-34-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 107-21-1
CMF C2 H6 O2

HO-CH₂-CH₂-OH

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 11 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:521427 HCAPLUS
DN 137:83391
TI Cosmetic hair compositions containing a polyether block silicone and a
polyether silicone and
IN Maubru, Mireille; Beauquey, Bernard; Thomas, Beatrice
PA L'Oreal, Fr.
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053111	A2	20020711	WO 2001-FR4120	20011220
	WO 2002053111	A3	20031009		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	FR 2818901	A1	20020705	FR 2001-7	20010102
	FR 2818901	B1	20040123		
PRAI	FR 2001-7	A	20010102		
AB	The invention concerns novel cosmetic compns. comprising in a cosmetically acceptable medium at least a silicone comprising at least a terminal or pendant monovalent polyoxyalkylene group and at least an (AB) _n type				

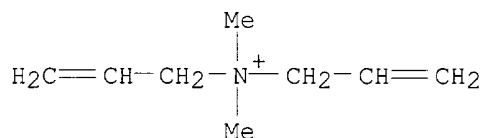
silicone, A being a block **polysiloxane** and B a polyoxyalkylene block and n being not less than 2. Said combination provides enhanced cosmetic properties (lightness, combing, volume, luster). Said compns. are used in particular for washing and/or conditioning keratinous materials such as the hair or the skin. A shampoo contained ethoxylated sodium lauryl sulfate 14, Miranol C2M 3.6, Jaguar C13A 0.04, polyoxyethylene **polydimethylsiloxane** 3, polyethylene glycol distearate 1, citric acid q.s. pH = 6.5, perfume, preservatives, and water q.s. 100 g.

- IC ICM A61K007-06
- ICS A61K007-48; C11D003-37; A61K007-50; C08J003-00
- CC 62-3 (Essential Oils and **Cosmetics**)
- IT **Polysiloxanes**, biological studies
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (di-Me, polyoxyethylene-polyoxypropylene-; cosmetic hair compns. containing polyether block silicone and polyether silicone and)
- IT Hair preparations
- (**dyes**; cosmetic hair compns. containing polyether block silicone and polyether silicone and)
- IT **Polysiloxanes**, biological studies
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (polyether-; cosmetic hair compns. containing polyether block silicone and polyether silicone and)
- IT **Polysiloxanes**, biological studies
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (polyoxyalkylene-; cosmetic hair compns. containing polyether block silicone and polyether silicone and)
- IT Polyoxyalkylenes, biological studies
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (**polysiloxane**-; cosmetic hair compns. containing polyether block silicone and polyether silicone and)
- IT Polyethers, biological studies
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (**siloxane**-; cosmetic hair compns. containing polyether block silicone and polyether silicone and)
- IT 81-13-0, Panthenol 9004-34-6D, Cellulose, quaternary derivs. 9004-62-0D, Hydroxyethyl cellulose, trimethylammonium derivs. **28301-34-0**, PolyDiallyldimethylammonium 29297-55-0, Vinyl imidazole-vinylpyrrolidone copolymer 36332-93-1, Methyl-18 eicosanoic acid 48042-45-1D, Diallyldimethylammonium, polymers 65497-29-2, Jaguar C13s **96525-76-7**, Acrylamide-diallyldimethylammonium copolymer
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (cosmetic **hair** compns. containing polyether block silicone and polyether silicone and)
- IT **28301-34-0**, PolyDiallyldimethylammonium **96525-76-7**, Acrylamide-diallyldimethylammonium copolymer
- RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
- (cosmetic **hair** compns. containing polyether block silicone and polyether silicone and)
- RN 28301-34-0 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 48042-45-1

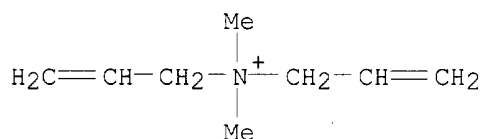
CMF C8 H16 N



RN 96525-76-7 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, polymer with 2-propenamide
 (9CI) (CA INDEX NAME)

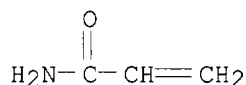
CM 1

CRN 48042-45-1
 CMF C8 H16 N



CM 2

CRN 79-06-1
 CMF C3 H5 N O



L31 ANSWER 12 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:482634 HCAPLUS

DN 137:51990

TI Acidic hair **dye** compositions containing anionic and cationic
 polymers and surfactants

IN Ochiai, Masatoshi; Suzuki, Kazunobu

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002179538	A2	20020626	JP 2000-374681	20001208
PRAI	JP 2000-374681		20001208		

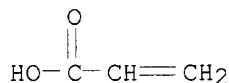
AB The invention relates to an acidic hair **dye** composition providing
 improved hair touch after the hair-**dyeing** treatment, wherein the
 composition contains anionic polymer 0.01-5, cationic polymer 0.01-15, anionic
 surfactant and/or nonionic surfactant 0.01-5 %. An acidic hair
dye composition containing carboxyvinyl polymer 0. 01, Japan orange 205

0.01, Japan red 227 0.1, Japan black 401 0.05, Japan purple 401 0.01, Japan yellow 4 0.1, 1,3-butylene glycol 15, benzyl alc. 5, hydroxyethyl cellulose 1.5, fragrance 0.5, stearyltrimethylammonium chloride 0.1, a cationic polymer (Merquat 550) 2.5, polyoxyethylene oleyl ether (Emalex 550-P) 0.5, α -olefinsulfonate 1, **methylpolysiloxane** 2, amino-modified silicone 0.1, soybean extract 0.1, wild oat extract 0.1, NaOH 0.02, and water balance to 100 % was prepared

IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 ST anionic cationic polymer surfactant acidic hair **dye**;
 carboxyvinyl polymer dimethyldiallylammonium chloride acrylamide copolymer hair **dye**
 IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 IT Sulfonic acids, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (alkene; acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 IT Vinyl compounds, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (carboxy-containing, polymers; acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 IT Hair preparations
 (**dyes**; acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 IT 9004-98-2, Polyoxyethylene oleyl ether
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (Emalex 550P; acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 IT 9003-01-4, Polyacrylic acid 26062-79-3, Merquat 100 26590-05-6, Merquat 550 42557-10-8 53633-54-8, Gafquat 755 81859-24-7, Polymer JR-400 158465-66-8D, methoxydimethylsilyl-terminated
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 IT 9003-01-4, Polyacrylic acid 26062-79-3, Merquat 100 26590-05-6, Merquat 550 53633-54-8, Gafquat 755
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (acidic hair **dye** compns. containing anionic and cationic polymers and surfactants)
 RN 9003-01-4 HCAPLUS
 CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7
 CMF C3 H4 O2



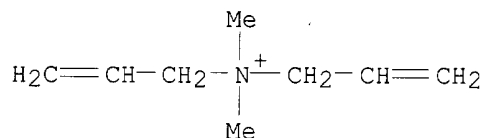
RN 26062-79-3 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer

(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

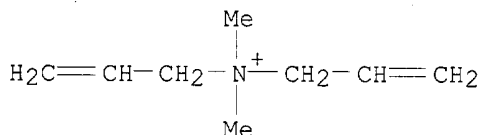
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

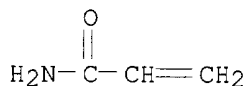


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O

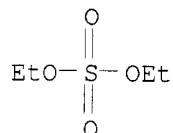


RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5
CMF C4 H10 O4 S

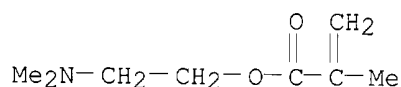


CM 2

CRN 30581-59-0
CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

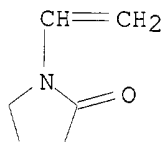
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 88-12-0
CMF C6 H9 N O



L31 ANSWER 13 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:465766 HCAPLUS
DN 137:51984
TI Hair conditioning compositions containing **polysiloxanes** and
their use in hair coloring compositions
IN Hammond, Roger Clive; Jones, Stevan David; Geary, Nicholas William
PA The Procter & Gamble Company, USA
SO PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2002047632	A2	20020620	WO 2001-US48600	20011207

WO 2002047632 A3 20030206

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002030903 A5 20020624 AU 2002-30903 20011207

EP 1341502 A2 20030910 EP 2001-991160 20011207

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

US 2003219399 A1 20031127 US 2003-460068 20030612

PRAI GB 2000-30369 A 20001213

GB 2001-20048 A 20010816

WO 2001-US48600 W 20011207

AB The present invention relates to a hair care composition comprising an aminofunctional **polysiloxane** (0.1-10%) having a specified average effective particle size (10-30 μ m) which provides improved durable conditioning, particularly when utilized in conjunction with a hair coloring composition

IC ICM A61K007-06

CC 62-3 (Essential Oils and **Cosmetics**)

ST **polysiloxane** hair conditioner oxidative **dye**

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(3-[(2-aminoethyl)amino]-2-methylpropyl Me, di-Me, Q 2-8220; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C16-18, ethoxylated, cetareth 25; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(amino-containing; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT Polyelectrolytes

(cationic; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT Hair preparations

(conditioners; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT Hair preparations

(**dyes**, oxidative; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT Hair

Particle size

Surfactants

(hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

IT Human

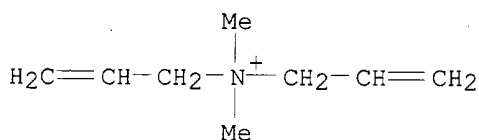
(hair; hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)

- IT 64-02-8, Tetrasodium EDTA 100-51-6, Benzyl Alcohol, biological studies 112-92-5, Stearyl Alcohol 122-99-6, Phenoxyethanol 532-32-1, Sodium Benzoate 1336-21-6, Ammonium hydroxide 4098-71-9D, IPDI, reaction products with DiPEG-2 Soyamine 9005-00-9, Steareth 2 24739-33-1D, N-soya alkyl derivs. 36653-82-4, Cetyl Alcohol 37099-91-5D, soya derivs., reaction products with IPDI 58846-77-8, Decyl glucoside 437984-20-8, Lowenol S 216
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair conditioning compns. containing aminofunctional **polysiloxanes** and their use in hair coloring compns.)
- IT 89-25-8, 1-Phenyl-3-methyl-5-pyrazolone 95-55-6, o-Aminophenol 106-50-3, p-Phenylenediamine, biological studies 108-46-3, Resorcinol, biological studies 123-30-8, p-Aminophenol 150-75-4, p-Methylaminophenol 591-27-5, m-Aminophenol 608-25-3, 2-Methyl resorcinol 1321-67-1, Naphthol 2835-95-2, 4-Amino-2-hydroxytoluene 6369-59-1 7722-84-1, Hydrogen peroxide, biological studies 16867-03-1, 2-Amino-3-Hydroxypyridine 25723-55-1, m-Phenylenediamine-sulfate 26062-79-3, Polyquaternium 6 26590-05-6, Polyquaternium 7 53633-54-8, Polyquaternium 11 55302-96-0 58262-44-5 65497-29-2, Guar hydroxypropyltrimonium chloride 81859-24-7, Polyquaternium 10 95144-24-4, Polyquaternium 16 98616-25-2, Quatrisoft LM 200 164919-03-3 437984-38-8, SF 1923
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair conditioning compns. containing **polysiloxanes** in hair coloring compns.)
- IT 26062-79-3, Polyquaternium 6 26590-05-6, Polyquaternium 7 53633-54-8, Polyquaternium 11 98616-25-2, Quatrisoft LM 200
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair conditioning compns. containing **polysiloxanes** in hair coloring compns.)
- RN 26062-79-3 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

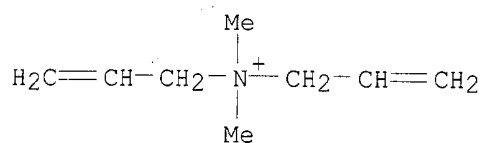
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

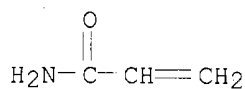
CMF C8 H16 N . Cl

● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



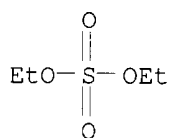
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

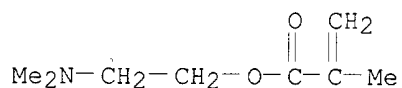
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

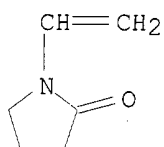
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



RN 98616-25-2 HCAPLUS

CN Cellulose, ether with α -[3-(dodecyldimethylammonio)-2-hydroxypropyl]-
 ω -hydroxypoly(oxy-1,2-ethanediyl) chloride (9CI) (CA INDEX NAME)

CM 1

CRN 169102-72-1

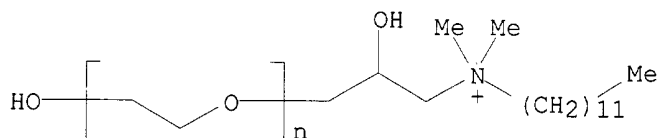
CMF (C2 H4 O)_n C17 H38 N O2 . x Unspecified

CM 2

CRN 168810-59-1

CMF (C2 H4 O)_n C17 H38 N O2

CCI PMS



CM 3

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L31 ANSWER 14 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:449457 HCAPLUS

DN 137:24122

TI Hair formulations containing phospholipids and proteins

IN Poppe, Elisabeth; Weser, Gabriele

PA Hans Schwarzkopf GmbH & Co. Kg, Germany

SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002045664	A1	20020613	WO 2001-EP13922	20011128
	W: AU, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10060814	A1	20020613	DE 2000-10060814	20001207
	AU 2002017064	A5	20020618	AU 2002-17064	20011128
PRAI	DE 2000-10060814	A	20001207		
	WO 2001-EP13922	W	20011128		
OS	MARPAT 137:24122				
AB	The invention relates to a novel use of phospholipids which significantly improves the restructuring of fibers, especially keratin fibers, and the fastness of keratin fibers. Thus, a hair spray contained Eumulgin B2 0.3, cetylstearyl alc. 3.3, iso-Pr myristate 0.5, Lamesoft PO65 0.5, Dehyquart A-CA 2.0, Salcare SC-96 1.0, citric acid 0.4, Gluadin WQ 2.0, pyridoxine 1.0, linoleamideopropyl PG-dimonium chloride phosphate 0.7, Phenonip 0.8, and water to 100%.				
IC	ICM A61K007-06				
	ICS A61K007-13				
CC	62-3 (Essential Oils and Cosmetics)				
IT	Hair preparations				
	(dyes, oxidative; hair formulations containing phospholipids and proteins)				
IT	Hair preparations				
	(dyes; hair formulations containing phospholipids and proteins)				
IT	Phospholipids, biological studies				
	Polymers, biological studies				
	Polyoxyalkylenes, biological studies				
	Polysiloxanes , biological studies				
	Protein hydrolyzates				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(hair formulations containing phospholipids and proteins)				
IT	99-96-7D, Benzoic acid, p-hydroxy-, esters 107-64-2, Genamin DSAC				
	111-60-4, Cutina EGMS 112-02-7, Dehyquart ACA 627-83-8, Cutina AGS				
	2809-21-4, Turpinal SL 5333-42-6, Eutanol G 8066-38-4, Phenonip				
	9003-39-8, Luviskol K30 9004-62-0, Natrosol 250HR 9004-82-4, Texapon				
	NSO 9012-76-4, Hydagen HCMF 26161-33-1 26590-05-6 ,				
	Merquat 550 28874-51-3, Ajidew NL50 30351-73-6 , Latekoll D				
	32208-04-1, Dehyquart F75 33939-64-9, Akypo RLM 45NV 42557-10-8, Dow				
	Corning 200 52467-63-7, Arquad 316 55008-57-6 , Gafquat 755N				
	55406-53-6, Biodocarb 65497-29-2, Cosmedia guar C261 67167-17-3, Antil				
	141 81859-24-7, Polymer JR 400 86893-19-8, Glucamate DOE 120				
	92183-41-0 , Celquat L200 102961-94-4, Dehyton G 144377-73-1,				
	Phospholipid EFA 145686-74-4, Dow Corning Q2-5220 148093-12-3, Sepigel				
	305 155808-76-7, Euperlan PK 3000 158191-47-0, Texapon K 14S				
	170137-14-1, Phospholipid PTC 188571-05-3, Gluadin WQ 194797-12-1,				
	Amisafe LMA-60 202833-50-9, Lamesoft PO 65 213190-84-2, Plantacare				
	2000 217087-75-7, Plantacare 818UP 225659-54-1, Dehyquart L80				
	241128-65-4, Phospholipid SV 357263-71-9, Honeyquat 50 371165-12-7,				
	Plantacare 810UP 371165-83-2, Promois Milk-CAQ 371166-06-2, Gluadin				
	WQT 371167-19-0, Cutina KD 16 473664-54-9, Salcare SC 96				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(hair formulations containing phospholipids and proteins)				
IT	26161-33-1 26590-05-6 , Merquat 550 30351-73-6 ,				

Latekoll D 55008-57-6, Gafquat 755N 92183-41-0,

Celquat L200

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair formulations containing phospholipids and proteins)

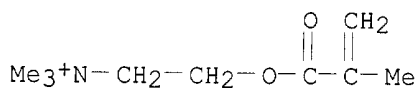
RN 26161-33-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

● Cl⁻

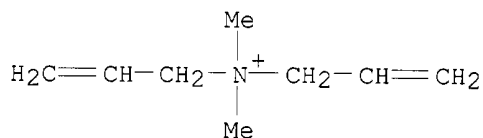
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

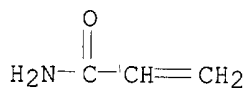
CMF C8 H16 N . Cl

● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 30351-73-6 HCAPLUS

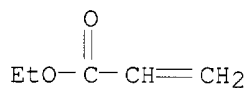
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and

2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 140-88-5

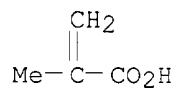
CMF C5 H8 O2



CM 2

CRN 79-41-4

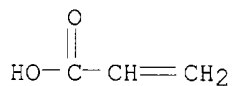
CMF C4 H6 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



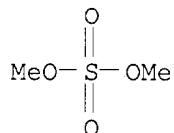
RN 55008-57-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



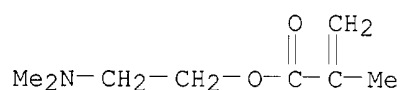
CM 2

CRN 30581-59-0

CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

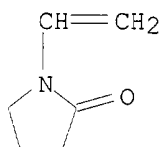
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

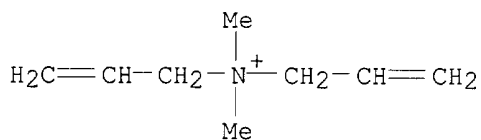
CRN 88-12-0
CMF C6 H9 N O



RN 92183-41-0 HCAPLUS
CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 9004-62-0
CMF C2 H6 O2 . x Unspecified

CM 3

CRN 9004-34-6
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 107-21-1

CMF C2 H6 O2

HO-CH₂-CH₂-OH

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 15 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:428663 HCAPLUS
DN 137:24137
TI Cosmetic and hair formulations containing polymers
IN Loeffler, Matthias; Morschhaeuser, Roman; Glauder, Jan
PA Clariant Gmbh, Germany
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 16

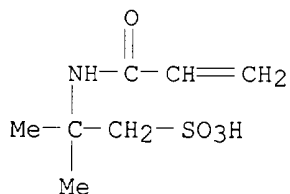
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002043677	A2	20020606	WO 2001-EP13862	20011128
	WO 2002043677	A3	20020822		
	W: BR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10059827	A1	20020620	DE 2000-10059827	20001201
	JP 2002265336	A2	20020918	JP 2001-295995	20010927
	EP 1345575	A2	20030924	EP 2001-989524	20011128
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	BR 2001015845	A	20031007	BR 2001-15845	20011128
PRAI	DE 2000-10059827	A	20001201		
	WO 2001-EP13862	W	20011128		
AB	The invention relates to cosmetic and dermatol. hair-treatment agents that contain at least one copolymer, obtainable by radical copolymerization of acryloyldimethyl taurine acid and/or acryloyldimethyl taurates, optionally one or more other unsaturated, no-cationic comonomers, optionally 1 or more unsaturated, cationic comonomers, 1 or more silicone-containing component(s), and 1 or more fluorine-containing component(s). Thus, a formulation contained Genaminox CSL 6.0, Cetiol HE 2.0, acrylamidopropyl-2-methyl-2-sulfonic acid-trimethylolpropane triacrylate copolymer 1.2, and water to 100%.				
IC	ICM A61K007-06				
CC	62-4 (Essential Oils and Cosmetics)				
IT	Antioxidants				
	Cosmetics				
	Dispersing agents				
	Dyes				
	Egg white				
	Emulsifying agents				
	Hair preparations				

Pearly materials
 Perfumes
 Photoprotectants
 Preservatives
 Stabilizing agents
 Sunscreens
 Thickening agents
 (cosmetic and hair formulations containing polymers)
 IT Enzymes, biological studies
 Lanolin
 Lecithins
 Peptides, biological studies
 Polymers, biological studies
 Polyoxyalkylenes, biological studies
Polysiloxanes, biological studies
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (cosmetic and hair formulations containing polymers)
 IT **Polysiloxanes**, biological studies
 RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
 (di-Me, 3-hydroxypropyl Me, ethers with polyethylene-polypropylene glycol acetate; cosmetic and hair formulations containing polymers)
 IT 2867-47-2DP, Dimethylaminoethylmethacrylate, polymers 5039-78-1DP, polymers 44992-01-ODP, polymers 45708-78-9DP, polymers 48103-10-2DP, polymers 69174-85-2DP, polymers 74443-97-3DP, polymers 76847-89-7DP, Dimethylaminopropylmethacrylate, polymers **144306-59-2P**
201338-09-2P 409334-38-9DP, polymers **433922-59-9P**
433922-71-5P 433922-72-6P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cosmetic and **hair** formulations containing polymers)
 IT **144306-59-2P 201338-09-2P 433922-59-9P**
433922-71-5P 433922-72-6P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cosmetic and **hair** formulations containing polymers)
 RN 144306-59-2 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

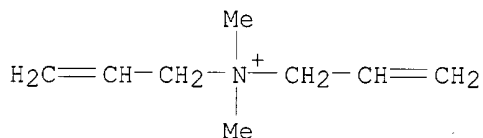
CMF C7 H13 N O4 S



CM 2

CRN 7398-69-8

CMF C8 H16 N . Cl

● Cl⁻

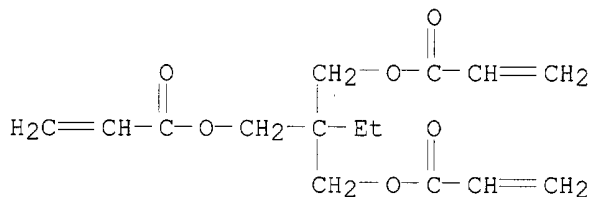
RN 201338-09-2 HCAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 15625-89-5

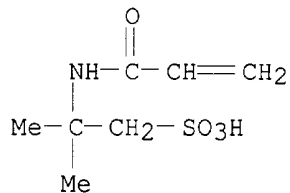
CMF C15 H20 O6



CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



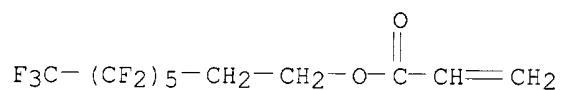
RN 433922-59-9 HCAPLUS

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

CM 1

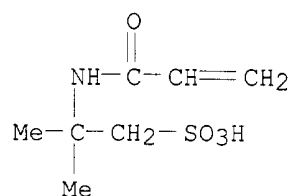
CRN 17527-29-6

CMF C11 H7 F13 O2



CM 2

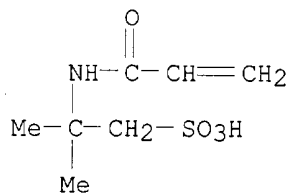
CRN 15214-89-8
CMF C7 H13 N O4 S



RN 433922-71-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA
INDEX NAME)

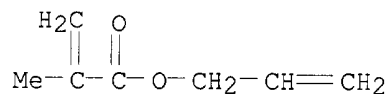
CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S



CM 2

CRN 96-05-9
CMF C7 H10 O2



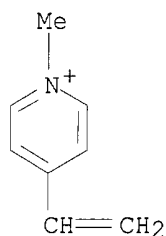
RN 433922-72-6 HCAPLUS
CN Pyridinium, 4-ethenyl-1-methyl-, chloride, polymer with
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA

INDEX NAME)

CM 1

CRN 45708-78-9

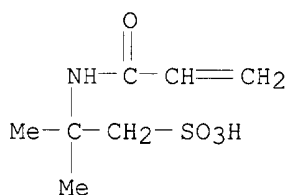
CMF C8 H10 N . Cl

● Cl⁻

CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



L31 ANSWER 16 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:391480 HCAPLUS
DN 136:390756
TI Composition for treating keratinous materials comprising a cationic
associative polyurethane polymer and a protecting or conditioning agent
IN Cottard, Francois; De la Mettrie, Roland
PA L'Oreal, Fr.
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002039964	A1	20020523	WO 2001-FR3426	20011106
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
 UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

FR 2816834 A1 20020524 FR 2000-14949 20001120

AU 2002023756 A5 20020527 AU 2002-23756 20011106

EP 1337230 A1 20030827 EP 2001-996351 20011106

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2001015665 A 20030916 BR 2001-15665 20011106

US 2004037796 A1 20040226 US 2003-432038 20030519

PRAI FR 2000-14949 A 20001120

WO 2001-FR3426 W 20011106

AB The invention concerns a composition for treating keratinous fibers, in particular human keratinous fibers such as hair, comprising in a physiologically acceptable medium, at least a protecting or conditioning agent, and further at least a cationic associative polyurethane polymer. The invention also concerns **dyeing** methods and devices using said composition. A shampoo contained ethoxylated sodium lauryl sulfate 17, 30% cocoylbetaine 2.5, cationic polymer 1.0, copra acid monisiopropanolamide 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid, perfume and preservatives q.s., and water q.s. 100 g.

IC ICM A61K007-06

ICS A61K007-42

CC 62-4 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 38

ST hair **dye** direct **dye** cationic polyurethane

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Me hydrogen; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(Me vinyl; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(alkyl aryl; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(alkyl; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(aryl; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)

IT Ceramides

Cyclosiloxanes

Fatty acids, biological studies

Paraffin oils

Polyolefins

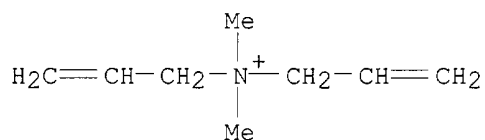
Polysiloxanes, biological studies

Waxes

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(composition for treating keratinous materials comprising cationic

- associative polyurethane polymer and protecting or conditioning agent)
- IT **Cyclosiloxanes**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)
- IT **Polysiloxanes**, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Ph, Me Ph, methoxy-terminated; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)
- IT Hair preparations
(**dyes**, oxidative; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)
- IT Hair preparations
(**dyes**; composition for treating keratinous materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)
- IT 69-72-7, Salicylic acid, biological studies 69-72-7D, Salicylic acid, salts 76-22-2D, Camphor, derivs. 79-10-7D, Acrylic acid, di-Ph derivs. 118-60-5, Octyl salicylate 118-92-3, Anthranilic acid 119-61-9D, Benzophenone, derivs. 120-46-7D, Dibenzoylmethane, derivs. 131-57-7, 2-Hydroxy-4-methoxybenzophenone 150-13-0D, derivs. 271-89-6D, Benzofuran, derivs. 273-53-0D, Benzoxazole, derivs. 290-87-9D, 1,3,5-Triazine, hydroxyphenyl derivs. 4065-45-6, Uvinul ms 40 5466-77-3, 2-Ethylhexyl 4-methoxycinnamate 6197-30-4, Octocrylene 9000-30-0D, Guar gum, derivs. 9000-30-0D, Guar gum, reaction products with epoxypyrrolidone, quaternary 9003-28-5, Polybutene 9003-39-8D, Polyvinylpyrrolidone, quaternary 9004-34-6D, Cellulose, derivs. 9004-62-0, Hydroxyethyl cellulose 9004-62-0D, Hydroxyethyl cellulose, reaction products with epoxide compds. 9016-00-6, Polydimethyl **siloxane** 15087-24-8D, Benzylidene camphor, derivs. 25232-42-2D, Polyvinylimidazole, quaternary 25429-38-3, Hydroxycinnamic acid 25429-38-3D, Hydroxycinnamic acid, salts **26062-79-3**, Diallyldimethylammonium chloride homopolymer **26590-05-6**, Acrylamide-diallyldimethylammonium chloride copolymer 27538-35-8D, Urocanic acid ethyl ester, derivs. 28791-69-7 31900-57-9, Polydimethyl **siloxane** 34354-88-6 37309-58-3, Polydecene 45633-15-6D, salts, reaction products with guar gum 54422-45-6 70356-09-1, 4-Tert-Butyl 4'-methoxydibenzoylmethane 96673-02-8 110483-07-3 129426-19-3 149591-38-8 150177-00-7 160065-31-6 191226-60-5D, derivs. 206052-70-2 245654-94-8 426835-76-9 426835-77-0
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(composition for treating **keratinous** materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)
- IT **26062-79-3**, Diallyldimethylammonium chloride homopolymer
26590-05-6, Acrylamide-diallyldimethylammonium chloride copolymer
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(composition for treating **keratinous** materials comprising cationic associative polyurethane polymer and protecting or conditioning agent)
- RN 26062-79-3 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)
- CM 1
- CRN 7398-69-8
- CMF C8 H16 N . Cl



● Cl⁻

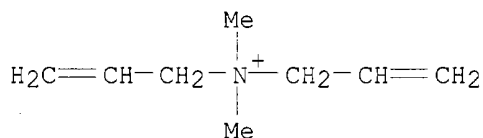
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

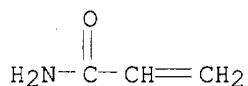


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 17 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:119260 HCAPLUS

DN 136:172479

TI Oxidative hair **dye** compositions comprising a cationic
amphiphilic polymer, an oxyalkylated or glycerolated fatty alcohol, and a
hydroxyl solvent

IN Laurent, Florence; Allard, Delphine

PA L'oreal, Fr.

SO Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1179336	A1	20020213	EP 2001-402086	20010801
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2812810	A1	20020215	FR 2000-10593	20000811
	FR 2812810	B1	20021011		
	AU 764030	B2	20030807	AU 2001-57852	20010807
	ZA 2001006513	A	20020212	ZA 2001-6513	20010808
	CN 1338250	A	20020306	CN 2001-133126	20010810
	BR 2001004743	A	20020604	BR 2001-4743	20010810
	RU 2223087	C2	20040210	RU 2001-122636	20010810
	US 2002046431	A1	20020425	US 2001-927510	20010813
	US 2003000026	A9	20030102		
	US 6602303	B2	20030805		
PRAI	FR 2000-10593	A	20000811		

OS MARPAT 136:172479

AB The title hair **dye** compns. are disclosed. A hair **dye** composition contained ethoxylated fatty alc. 32.5, glycerin 3, oleic acid 2, oleic alc. 1.8, copra acid monoisopropanolamide 4, cationic amphiphilic polymer (Quatrisoft LM200) 0.3, cationic non-amphiphilic polymer 1.8, amphoteric polymer (Merquat 280) 1.22, vegetable e oils 0.6, 20% ammonia 8, 1,3-dihydroxybenzene 0.011, p-phenylenediamine 0.31, 1-hydroxy-3-aminobenzene 0.035, 1-hydroxy-2-aminobenzene 0.023, 1-hydroxy-4-aminobenzene 0.53, 5-N-(β -hydroxyethyl)-amino-2-methylphenol 1.07, 4-N-methylphenol sulfate 0.43, 5-methyl-2-aminophenol 0.12, sequestering agents, antioxidants, reducing agents, and water q.s. 100%. An oxidant composition contained fatty alc. 2.3, ethoxylated fatty alc. 0.6, fatty amide 0.9, glycerin 0.5, hydrogen peroxide 7.5, perfume and water q.s. 100%. The hair **dye** composition is mixed with the oxidant composition at a ratio of 1 to 1.5 and used.

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)ST oxidative hair **dye** cationic amphiphilic polymer; fatty alcsolvent oxidative hair **dye**

IT Polyelectrolytes

(anionic; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)

IT Polyelectrolytes

(cationic, amphiphilic; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)

IT Hair preparations

(**dyes**, oxidative; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(fatty, alkoxyated; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)

IT Salts, biological studies

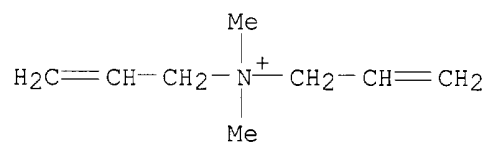
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(of peroxy acids; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)

- IT Coupling agents
Opacifiers
Oxidizing agents
Preservatives
Solvents
Sunscreens
Thickening agents
(oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- IT Acrylic polymers, biological studies
Carbohydrates, biological studies
Ceramides
Paraffin oils
Polymers, biological studies
Polyurethanes, biological studies
Siloxanes (nonpolymeric)
Vitamins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- IT Enzymes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidoredn.; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- IT Fats and Glyceridic oils, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(vegetable; oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- IT 79-10-7D, Acrylic acid, polymers 108-45-2D, 1,3-Benzenediamine, derivs. 110-86-1D, Pyridine, derivs. 124-43-6 289-95-2D, Pyrimidine, derivs. 533-31-3, Sesamol 533-31-3D, Sesamol, derivs. 591-27-5D, derivs. 7722-84-1, Hydrogenperoxide, biological studies 9004-34-6D, Cellulose, quaternary salts 9004-62-0D, Hydroxyethyl cellulose, quaternary salts 39455-90-8D, Pyrazolone, derivs. **53694-17-0**, (Merquat 280) **98616-25-2**, (Quatrisoft LM200)
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- IT 56-81-5, Glycerin, uses 57-55-6, Propylene glycol, uses 64-17-5, Ethanol, uses 71-23-8, Propanol, uses 71-36-3, Butanol, uses 107-41-5, 2-Methyl-2,4-pentanediol 111-29-5, 1,5-Pentanediol 126-30-7, 2,2-Dimethyl-1,3-propanediol 504-63-2, 1,3-Propanediol 684-84-4, 2-Methyl-1,3-butanediol 2163-42-0, 2-Methyl-1,3-propanediol 4457-71-0, 3-Methyl-1,5-pentanediol 25265-71-8, Dipropylene glycol
RL: NUU (Other use, unclassified); USES (Uses)
(oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- IT **53694-17-0**, (Merquat 280) **98616-25-2**, (Quatrisoft LM200)
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair **dye** compns. comprising cationic amphiphilic polymer, oxyalkylated or glycerolated fatty alc., and hydroxyl solvent)
- RN 53694-17-0 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

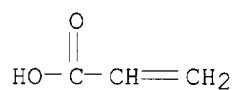
CMF C8 H16 N . Cl



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 98616-25-2 HCAPLUS

CN Cellulose, ether with α -[3-(dodecyldimethylammonio)-2-hydroxypropyl]-
 ω -hydroxypoly(oxy-1,2-ethanediyl) chloride (9CI) (CA INDEX NAME)

CM 1

CRN 169102-72-1

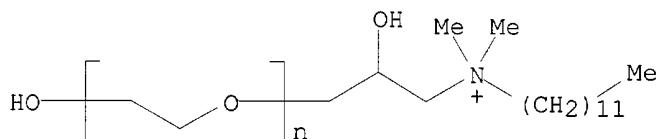
CMF (C2 H4 O)_n C17 H38 N O2 . x Unspecified

CM 2

CRN 168810-59-1

CMF (C2 H4 O)_n C17 H38 N O2

CCI PMS



CM 3

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 18 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:30988 HCAPLUS
DN 136:74297
TI Clear and foamable aerosol hair care product composed of two phases
IN Keller, Walter; Kischka, Karl-Heinz
PA Wella Aktiengesellschaft, Germany
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1169998	A2	20020109	EP 2001-112311	20010519
	EP 1169998	A3	20040128		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 10033414	A1	20020124	DE 2000-10033414	20000708
	DE 10033414	B4	20040219		
	BR 2001002716	A	20020226	BR 2001-2716	20010705
	US 2002031478	A1	20020314	US 2001-899788	20010705
	US 6589509	B2	20030708		
PRAI	DE 2000-10033414	A	20000708		
AB	The invention concerns hair conditioners that are packaged in pressure-tight transparent containers and are composed of two clear phases; the hydrophilic phase contains water, water-miscible solvents, a cationic hair conditioner, and an organic or inorg. salt; the lipophilic phase includes the liquified propellant. Upon usage the two phases are mixed and sprayed as a foam. Thus an aerosol foam composition contained (g): polyvinylpyrrolidone 0.2; polyquaternium-11 0.18; Cetyltrimethyl ammonium chloride 0.25; quaternium-80 0.45; magnesium sulfate heptahydrate 0.2; isodecane 2.5; isobutane 6.8; butane 6.8; propane 1.8; water to 100.				
IC	ICM A61K007-06				
CC	62-3 (Essential Oils and Cosmetics)				
IT	Containers				
	Dyes				
	Pressure				
	Propellants (sprays and foams)				
	Transparency				
	(clear and foamable aerosol hair care product composed of two phases)				
IT	Jojoba oil				
	Paraffin oils				
	Polysiloxanes , biological studies				
	Protein hydrolyzates				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(clear and foamable aerosol hair care product composed of two phases)				
IT	Polysiloxanes , biological studies				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts); clear and foamable aerosol hair care product composed of two phases)				
IT	Cyclosiloxanes				
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)				
	(di-Me; clear and foamable aerosol hair care product composed of two phases)				

IT 62-54-4, Calcium acetate 74-98-6, Propane, biological studies 75-28-5, Isobutane 106-97-8, Butane, biological studies 107-43-7, Betaine 112-02-7, Cetyltrimethyl ammonium chloride 115-10-6, Dimethylether 137-08-6 2456-28-2, Dicaprylether 7647-14-5, Sodium chloride, biological studies 7757-82-6, Sodium sulfate, biological studies 9003-39-8, 2-Pyrrolidinone, 1-ethenyl-, homopolymer 9012-76-4, Chitosan 10034-99-8, Magnesium sulfate heptahydrate 25086-89-9, Vinylpyrrolidone-vinylacetate copolymer **26590-05-6**, Polyquaternium-7 30399-84-9, Isostearic acid 34464-38-5, Isodecane 34513-50-3, Octyldodecanol **53633-54-8**, Polyquaternium-11 84878-33-1, Cetylisononanoate 84878-34-2, Stearylisononanoate 95144-24-4, Polyquaternium-16

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(clear and foamable aerosol **hair** care product composed of two phases)

IT **26590-05-6**, Polyquaternium-7 **53633-54-8**, Polyquaternium-11

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(clear and foamable aerosol **hair** care product composed of two phases)

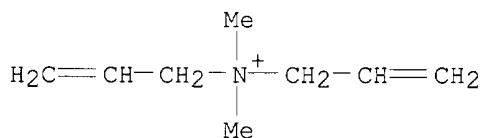
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

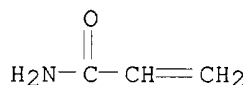


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O

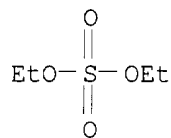


RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5
CMF C4 H10 O4 S

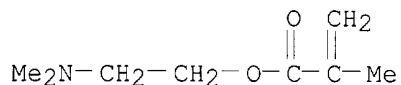


CM 2

CRN 30581-59-0
CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

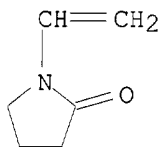
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 88-12-0
CMF C6 H9 N O



L31 ANSWER 19 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:923577 HCAPLUS
DN 136:42518
TI Hair bleaches and **dyes** containing alkalies and oxidants
IN Matsuo, Takashi; Miyabe, Hajime; Shibata, Yutaka
PA Kao Corporation, Japan
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001095869	A1	20011220	WO 2001-JP4835	20010608

W: US

RW: DE, FR, GB

JP 2001354530	A2	20011225	JP 2000-175133	20000612
JP 2001354531	A2	20011225	JP 2000-175134	20000612
EP 1291006	A1	20030312	EP 2001-938562	20010608

R: DE, FR, GB

US 2003192133	A1	20031016	US 2002-275736	20021108
PRAI JP 2000-175133	A	20000612		
JP 2000-175134	A	20000612		
WO 2001-JP4835	W	20010608		

AB An oxidation-type hair bleach or **dye** which is composed of a first lotion containing an alkali agent and a second lotion containing an oxidizing agent, contains the following components (A), (B), (C), and (D) in amts. described below based on the whole of the mixture of the first lotion with the second one, and has a pH of 8 to 12: (A) 8-40 % a water-compatible organic solvent exhibiting an octanol-water partition coefficient (logP) of 0.3 or

above at 25°C and having a mol. weight of ≤ 200 , (B) 0.1-10 % an alkali agent, (C) 0.1-12 % an oxidizing agent, hydrogen peroxide, and (D) 25-70 % water. This hair bleach or **dye** has a high bleaching power, can **dye** the hair in a good bright color, and is lowered in the irritant stench and the irritation to the scalp. A hair bleach comprised (1) a first lotion containing Na polyoxyethylene lauryl sulfate 15, coco fatty acid diethanolamide 40, benzyl alc. 25, ammonia water (28 %) 7, and water 13 % and (2) a second lotion containing Na polyoxyethylene lauryl sulfate 20, coco fatty acid diethanolamide 2, H₂O₂ solution (35 %) 17, phosphoric acid solution (75 %) 0.3, and water 60.7 %.

IC ICM A61K007-13

ICS A61K007-135

CC 62-3 (Essential Oils and **Cosmetics**)ST hair bleach **dye** oxidant alkali surfactant

IT Sulfonic acids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(1-alkenesulfonic, sodium salts; hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT Sulfonic acids, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(alkanesulfonic, sodium salts; hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT Hair preparations

(bleaches; hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT Amides, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(coco, N,N-bis(hydroxyethyl); hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT **Polysiloxanes**, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(di-Me, polyoxyethylene-, graft; hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT Hair preparations

(**dyes**; hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT Quaternary ammonium compounds, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(polymers; hair bleaches and **dyes** containing alkalies and oxidants and surfactants in organic solvents)

IT 95-55-6, o-Aminophenol 95-70-5, Toluene-2,5-diamine 99-56-9,
p-Nitro-o-phenylenediamine 100-51-6, Benzyl alcohol, biological studies

123-30-8, p-Aminophenol 591-27-5 622-08-2, 2-Benzyloxyethanol
 1336-21-6, Ammonia water 2475-46-9, Disperse blue 3 2835-96-3,
 p-Amino-o-cresol 3179-90-6, Disperse blue 7 3520-42-1, Acid red 52
 4292-10-8, Laurylamidopropylbetaine 7722-84-1, Hydrogen peroxide,
 biological studies 8004-92-0, Acid yellow 3 9002-92-0, Polyoxyethylene
 lauryl ether 9004-82-4, Sodium polyoxyethylene lauryl ether sulfate
 9016-45-9, Polyoxyethylene nonyl phenyl ether 12221-52-2, Basic red 22
 24938-91-8, Polyoxyethylene tridecyl ether **26590-05-6**, Merquat
 550 29923-31-7, Sodium N-lauroyl glutamate 32128-65-7, Polyoxyethylene
 octyl dodecyl ether **53694-17-0**, Merquat 280 54381-16-7,
 N,N-Bis(2-hydroxyethyl)p-phenylenediamine sulfate 68391-30-0, Basic red
 76 70643-19-5, 2,4-Diaminophenoxyethanol 81859-24-7, Catinal LC 100
 160950-38-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**hair** bleaches and **dyes** containing alkalies and
 oxidants and surfactants in organic solvents)

IT **26590-05-6**, Merquat 550 **53694-17-0**, Merquat 280

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(**hair** bleaches and **dyes** containing alkalies and
 oxidants and surfactants in organic solvents)

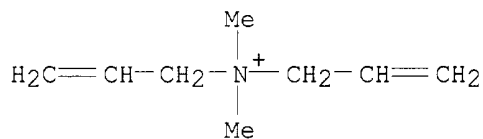
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

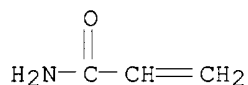


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O

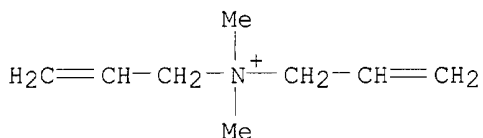


RN 53694-17-0 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

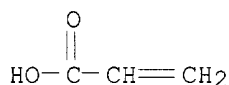
CRN 7398-69-8
CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 79-10-7
CMF C3 H4 O2



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 20 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:780637 HCAPLUS
DN 135:335009
TI Phase-separated rinse-off hair coloring/cleansing products
IN Wells, Robert Lee; Crane, Elizabeth Ann
PA Procter + Gamble Company, USA
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001078671	A2	20011025	WO 2001-US11661	20010409
WO 2001078671	A3	20020510		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1276453	A2	20030122	EP 2001-928439	20010409
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003530418	T2	20031014	JP 2001-575973	20010409

PRAI US 2000-551035 A 20000417
 WO 2001-US11661 W 20010409

AB Phase-separated rinse-off hair coloring/cleansing compns. comprise water soluble

dye materials, surfactant materials, and water, wherein the water soluble **dyes** are concentrated in a dispersed phase of liquid emulsion droplets dispersed within the droplets to the extent that the intensity of the color imparted by the **dye** materials to the droplets is greater than the intensity of the color imparted by the **dye** materials to continuous aqueous phase. The dispersed phase may be formed by the combination of the surfactant materials and the **dye** materials. Methods of coloring and cleansing hair are also disclosed. Thus, a shampoo contained sodium lauroamphoacetate 16, and Basic Blue Number 99 3% and water qs.

IC ICM A61K007-13

ICS A61K007-50

CC 62-4 (Essential Oils and **Cosmetics**)

ST hair coloring phase sepn; **dye** hair surfactant phase sepn;
 quaternary ammonium hair coloring phase sepn

IT **Dyes**

Polyelectrolytes

Surfactants

(cationic; phase-separated rinse-off hair coloring/cleansing products)

IT **Dyes**

(direct; phase-separated rinse-off hair coloring/cleansing products)

IT Hair preparations

(**dyes**; phase-separated rinse-off hair coloring/cleansing products)

IT Betaines

Carboxylic acids, biological studies

Polysiloxanes, biological studies

Proteins, general, biological studies

Quaternary ammonium compounds, biological studies

Sulfobetaines

Sulfonic acids, biological studies

Vitamins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(phase-separated rinse-off hair coloring/cleansing products)

IT **Dyes**

(water-soluble; phase-separated rinse-off hair coloring/cleansing products)

IT **68039-13-4**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(Polycare 133; phase-separated rinse-off hair coloring/cleansing products)

IT 56-40-6D, Glycine, derivs., biological studies 70-47-3D, Asparagine,

derivs. 107-97-1D, Sarcosine, derivs. 2235-54-3, Ammonium lauryl

sulfate 7664-38-2D, Phosphoric acid, esters, biological studies

7664-93-9D, Sulfuric acid, esters, biological studies 9006-65-9,

Dimethicone **26062-79-3**, Dimethyldiallylammonium chloride

homopolymer 32612-48-9, Ammonium laureth sulfate 65497-29-2, Guar

hydroxypropyltrimonium chloride 68123-13-7, Basic blue 99 156028-14-7,

Sodium lauroamphoacetate 176742-32-8, Basic brown 17

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

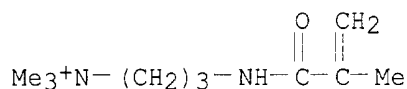
(phase-separated rinse-off **hair** coloring/cleansing products)

IT **68039-13-4**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

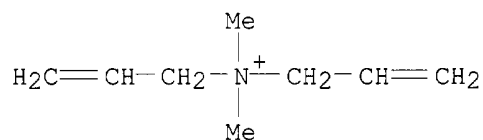
(Uses)

(Polycare 133; phase-separated rinse-off hair coloring/cleansing products)
RN 68039-13-4 HCAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-,
chloride, homopolymer (9CI) (CA INDEX NAME)
CM 1
CRN 51410-72-1
CMF C10 H21 N2 O . Cl



● Cl⁻

IT 26062-79-3, Dimethyldiallylammonium chloride homopolymer
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(phase-separated rinse-off **hair** coloring/cleansing products)
RN 26062-79-3 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer
(9CI) (CA INDEX NAME)
CM 1
CRN 7398-69-8
CMF C8 H16 N . Cl



● Cl⁻

L31 ANSWER 21 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:729697 HCAPLUS
DN 135:277719
TI Roll-on applicator containing a hair-treating composition
IN Jourdan, Herve; Pasquet, Dorothee
PA L'oreal, Fr.
SO Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

PI	EP 1138315	A1	20011004	EP 2001-400555	20010302
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2806274	A1	20010921	FR 2000-3251	20000314
	FR 2806274	B1	20020920		
	AU 761264	B2	20030529	AU 2001-23121	20010220
	JP 2001294517	A2	20011023	JP 2001-70774	20010313
	CN 1336151	A	20020220	CN 2001-117316	20010313
	RU 2217536	C2	20031127	RU 2001-106946	20010313
	BR 2001001175	A	20011030	BR 2001-1175	20010314
	US 2003012758	A1	20030116	US 2001-805060	20010314
	US 6635262	B2	20031021		
PRAI	FR 2000-3251	A	20000314		

AB A roll-on applicator containing a hair-treating composition is disclosed. The composition comprises carboxylic surfactants, fixative polymers, and **dyes**. A hair preparation contained Synthalen K 0.5, 3% Aristoflex A, Mirasil DMCO 0.1, perfume 0.3, ethanol 40, AMP q.s. pH = 7.6, and water q.s. 100 %.

IC ICM A61K007-06
ICS A45D034-04

CC 62-3 (Essential Oils and **Cosmetics**)

IT **Polysiloxanes**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated; roll-on applicator containing hair-treating composition)

IT **Polysiloxanes**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(di-Me, ethoxylated propoxylated; roll-on applicator containing hair-treating composition)

IT Acrylic polymers, biological studies
Ceramides
Fatty acids, biological studies
Glycols, biological studies
Paraffin oils
Polyamides, biological studies
Polymers, biological studies
Polyolefins
Polysiloxanes, biological studies
Proteins, general, biological studies
Vitamins
Waxes
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(roll-on applicator containing hair-treating composition)

IT **92183-41-0**, Celquat LOR
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(Celquat LOR; roll-on applicator containing **hair**-treating composition)

IT **25212-88-8**, Luvimer MAE
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(Luvimer MAE; roll-on applicator containing hair-treating composition)

IT 56-81-5, Glycerin, biological studies 79-10-7D, Acrylic acid, esters, polymers with vinyl acetate 107-13-1D, Acrylonitrile, polymers 108-05-4D, Vinylacetate, polymers with acrylic esters 110-16-7D, Maleic acid, esters, polymer swith vinyl acetate 2116-84-9, dow corning 556

9003-18-3D, Acrylonitrile butadiene copolymer, polymers
 9003-20-7, vinyl acetate homopolymer 9003-29-6, polybutene 9004-34-6D,
 Cellulose, esters, biological studies 9004-62-0D, Hydroxyethyl
 cellulose, quaternary ammonium salts 9006-26-2, Ethylene maleic
 anhydride copolymer 24937-78-8, Ethylene vinyl acetate copolymer
 26062-56-6, Ultrahold strong 26062-79-3,
 Diallyldimethylammonium chloride homopolymer 26590-05-6,
 Acrylamide Diallyldimethylammonium chloride copolymer 28791-69-7
 29297-55-0, Vinylpyrrolidone vinylimidazole copolymer 34354-88-6
 37309-58-3, polydecene 39421-75-5, jaguar hp 105 42557-10-8, dow
 corning 200 53633-54-8, gafquat 734 54422-45-6 54482-09-6
 68134-63-4, Aristoflex a 76050-42-5, Synthalen k 96673-02-8
 110483-07-3 129426-19-3 149591-38-8 150177-00-7 160065-31-6
 163063-14-7, aculyn 22 195739-91-4, Carbopol Ultrez 10 203341-07-5,
 dow corning 939 206052-70-2 264189-48-2, Solanace
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(roll-on applicator containing **hair**-treating composition)

IT 92183-41-0, Celquat LOR

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(Celquat LOR; roll-on applicator containing **hair**-treating composition)

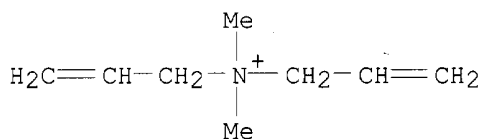
RN 92183-41-0 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-
 propen-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 9004-62-0

CMF C2 H6 O2 . x Unspecified

CM 3

CRN 9004-34-6

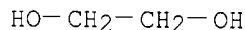
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

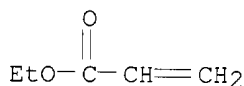
CRN 107-21-1
CMF C2 H6 O2



IT **25212-88-8**, Luvimer MAE
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(Luvimer MAE; roll-on applicator containing hair-treating composition)
RN 25212-88-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (9CI) (CA
INDEX NAME)

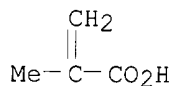
CM 1

CRN 140-88-5
CMF C5 H8 O2



CM 2

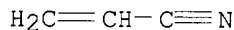
CRN 79-41-4
CMF C4 H6 O2



IT **9003-18-3D**, Acrylonitrile butadiene copolymer, polymers
26062-56-6, Ultrahold strong **26062-79-3**,
Diallyldimethylammonium chloride homopolymer **26590-05-6**,
Acrylamide Diallyldimethylammonium chloride copolymer **53633-54-8**
, gafquat 734 **68134-63-4**, Aristoflex a
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(roll-on applicator containing **hair**-treating composition)
RN 9003-18-3 HCAPLUS
CN 2-Propenenitrile, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

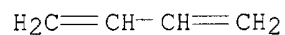
CRN 107-13-1
CMF C3 H3 N



CM 2

CRN 106-99-0

CMF C4 H6



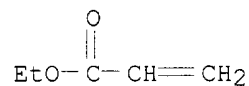
RN 26062-56-6 HCAPLUS

CN 2-Propenoic acid, polymer with N-(1,1-dimethylethyl)-2-propenamide and ethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 140-88-5

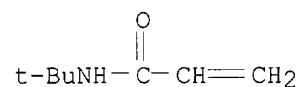
CMF C5 H8 O2



CM 2

CRN 107-58-4

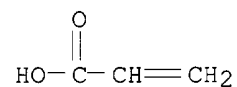
CMF C7 H13 N O



CM 3

CRN 79-10-7

CMF C3 H4 O2



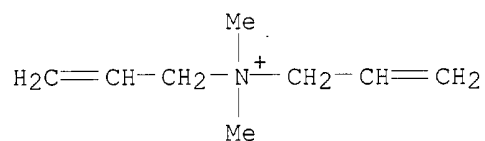
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

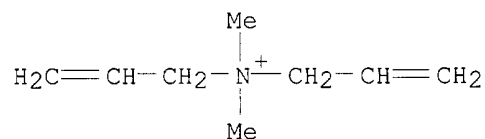
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

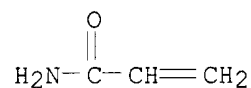


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



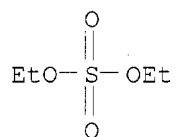
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX
NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S

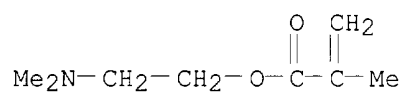


CM 2

CRN 30581-59-0
CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

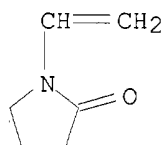
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

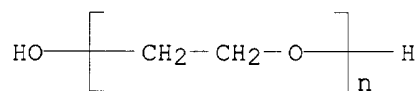
CRN 88-12-0
CMF C6 H9 N O



RN 68134-63-4 HCAPLUS
CN 2-Butenoic acid, polymer with ethenyl acetate and α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

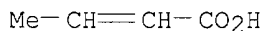
CM 1

CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS



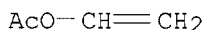
CM 2

CRN 3724-65-0
CMF C4 H6 O2



CM 3

CRN 108-05-4
CMF C4 H6 O2



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 22 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:586491 HCAPLUS
DN 135:170471
TI Compositions containing alcohols for hair treatment agents
IN Ota, Toshio; Aga, Michihiro; Watanabe, Katsuhiro
PA Sanei Kagaku Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001220333	A2	20010814	JP 2001-99823	20010330
	US 2003103923	A1	20030605	US 2002-105234	20020326
PRAI	JP 2001-95360	A	20010329		
	JP 2001-95361	A	20010329		
	JP 2001-99822	A	20010330		
	JP 2001-99823	A	20010330		
AB	The compns., for hair conditioners, dyes , wave-setting preps., hair-styling preps., perfume dispersions, refresheners, and thickening agents, contain alcs. A hair conditioner containing cetanol, glycerin monostearate, and cetyltrimethylammonium chloride showed hair-smoothing and -softening effect.				
IC	ICM A61K007-13 ICS A61K007-09; A61K007-135				
CC	62-3 (Essential Oils and Cosmetics)				
IT	Polysiloxanes , biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (Me, polyoxyethylene-; hair treatment compns. containing alcs. and)				
IT	Polysiloxanes , biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (Me; hair treatment compns. containing alcs. and)				
IT	Hair preparations (dyes ; hair treatment compns. containing alcs.)				
IT	Amines, biological studies Lactams				

Polymers, biological studies

Polyoxyalkylenes, biological studies

Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair treatment compns. containing alcs. and)

IT **Polysiloxanes**, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(polyoxyalkylene-; hair treatment compns. containing alcs. and)

IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**polysiloxane**-; hair treatment compns. containing alcs. and)

IT 57-11-4, Stearic acid, biological studies 79-41-4D, Methacrylic acid, alkyl esters, polymers with methacryloyloxyethyldimethylammonium methylcarboxybetaine 87-69-4, Tartaric acid, biological studies 94-13-3, Propyl p-hydroxybenzoate 99-76-3, Methyl p-hydroxybenzoate 102-71-6, Triethanolamine, biological studies 107-43-7, Trimethylglycine 124-68-5, 2-Amino-2-methyl-1-propanol 139-33-3, Disodium edetate 541-02-6, **Decamethylcyclopentasiloxane** 872-50-4, N-Methylpyrrolidone, biological studies 9000-07-1, Carrageenan 9002-92-0, Polyoxyethylene lauryl ether **9003-01-4**, Poly(acrylic acid) 9003-11-6, Ethylene oxide-propylene oxide copolymer 9003-39-8, Poly(vinylpyrrolidone) 9004-62-0, Hydroxyethyl cellulose 9004-98-2, Polyoxyethylene oleyl ether 9005-12-3, Methylphenylsilanediol homopolymer, sru 9005-37-2, Propylene glycol alginate 9016-45-9, Polyoxyethylene nonylphenyl ether 25119-63-5, Butyl maleate-vinyl methyl ether copolymer 25322-68-3, Polyethylene glycol 25322-68-3D, Polyethylene glycol, derivs. **25609-89-6**, Vinyl acetate-crotonic acid copolymer **26590-05-6**, Acrylamide-dimethyldiallylammonium chloride copolymer 26636-40-8, Polyoxyethylene behenyl ether 31230-04-3, Methylphenylsilanediol homopolymer 52292-17-8, Polyoxyethylene isostearyl ether **53633-54-8** 62723-61-9D, polymers with alkyl methacrylates **163633-70-3** 192509-04-9, Ethyl maleate-vinyl methyl ether copolymer
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair** treatment compns. containing alcs. and)

IT **9003-01-4**, Poly(acrylic acid) **25609-89-6**, Vinyl acetate-crotonic acid copolymer **26590-05-6**, Acrylamide-dimethyldiallylammonium chloride copolymer **53633-54-8** **163633-70-3**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**hair** treatment compns. containing alcs. and)

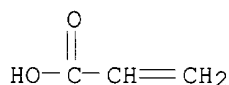
RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7

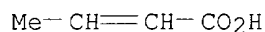
CMF C3 H4 O2



RN 25609-89-6 HCAPLUS
 CN 2-Butenoic acid, polymer with ethenyl acetate (9CI) (CA INDEX NAME)

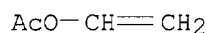
CM 1

CRN 3724-65-0
 CMF C4 H6 O2



CM 2

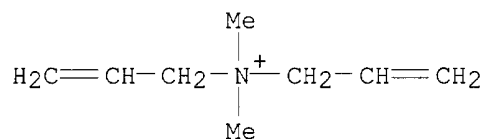
CRN 108-05-4
 CMF C4 H6 O2



RN 26590-05-6 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

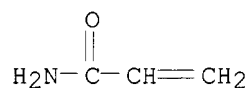
CRN 7398-69-8
 CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 79-06-1
 CMF C3 H5 N O



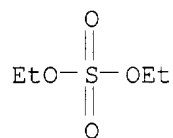
RN 53633-54-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

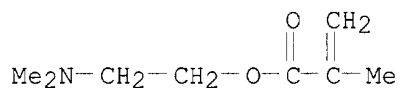
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

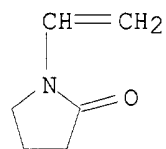
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



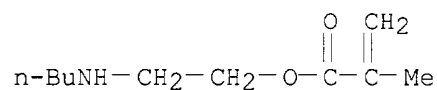
RN 163633-70-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(butylamino)ethyl ester, polymer with N-octyl-2-propenamide and 1,2-propanediol mono-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 24171-27-5

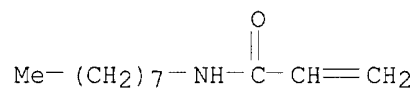
CMF C10 H19 N O2



CM 2

CRN 10124-68-2

CMF C11 H21 N O



CM 3

CRN 25584-83-2

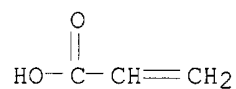
CMF C6 H10 O3

CCI IDS

CM 4

CRN 79-10-7

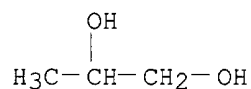
CMF C3 H4 O2



CM 5

CRN 57-55-6

CMF C3 H8 O2



L31 ANSWER 23 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:487202 HCAPLUS

DN 131:134394

TI Ammonia-free composition for **dyeing** hair fibers

IN Yaker, Myriam; Lascar, Guy

PA Perma, Eugene, Fr.

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA French

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

FAN.CNT 1

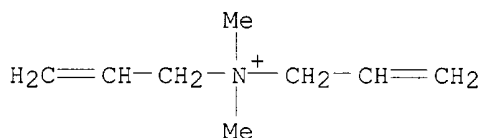
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9937278	A1	19990729	WO 1999-FR114	19990120
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2773992	A1	19990730	FR 1998-738	19980123
	FR 2773992	B1	20000616		
	CA 2319266	AA	19990729	CA 1999-2319266	19990120
	AU 9920610	A1	19990809	AU 1999-20610	19990120
	AU 754260	B2	20021107		
	EP 1047385	A1	20001102	EP 1999-900972	19990120
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6423101	B1	20020723	US 2000-600834	20001020
PRAI	FR 1998-738	A	19980123		
	WO 1999-FR114	W	19990120		
AB	The invention concerns an ammonia-free composition for dyeing hair fibers, comprising an oxidant compound, dye precursors and a non-volatile odorless alkaline agent characterized in that it further comprises: a quaternized copolymer of dimethyldiallylammonium and acrylic acid; a quaternized silicone; an acrylic-itaconic copolymer esterified with 1 or several fatty alcs., optionally polyoxyethylenated. Thus, a gel contained Merquat-280 0.8, Abil Quat-3272 0.1, EtOH 14.4, Ethomeen-T012 14.0, monoethanolamine 11.5, Dehyton K-COS 12.0, white olein 8.0, Masquol P-550 1.0, Dowanol-PM 5.0, 35% Na bisulfite 1.5 p-phenylenediamine 1.5, p-aminophenol 0.25, hydrquinone 0.15, resorcinol 0.35, m-aminophenol 0.06, m-phenylenediamine 0.035, p-amino-o-cresol 0.0015, 1-phenyl-3-methyl-5-pyrazolone 0.2. and water to 100%. A second composition contained Na pyrophosphate 0.01, sodium stannate 0.02, Masquol 0.15, Structure-2001 0.40, Structure-3001 0.92, 50% oxygenated water 12.0, 85% orthophosphoric acid 0.1, and water 100%. The 2 compns. were mixed and used for hair prepsns.				
IC	ICM A61K007-13				
	ICS A61K007-06				
CC	62-3 (Essential Oils and Cosmetics)				
ST	hair dye acrylic polymer silicone; PEG acrylic itaconate hair dye				
IT	Oxidizing agents (ammonia-free composition for dyeing hair fibers)				
IT	Acrylic polymers, biological studies Alcohols, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (ammonia-free composition for dyeing hair fibers)				
IT	Hair preparations (creams; ammonia-free composition for dyeing hair fibers)				
IT	Polysiloxanes , biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts), Abil Quat				

- 3272; ammonia-free composition for **dyeing** hair fibers)
- IT **Polysiloxanes**, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (di-Me, quaternary ammonium group-contg; ammonia-free composition for
dyeing hair fibers)
- IT Hair preparations
 (dyes; ammonia-free composition for **dyeing** hair fibers)
- IT Alcohols, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (fatty, ester with acrylic acid copolymers; ammonia-free composition for
dyeing hair fibers)
- IT Hair preparations
 (gels; ammonia-free composition for **dyeing** hair fibers)
- IT 102-71-6, biological studies 124-68-5 141-43-5, Monoethanolamine,
 biological studies 7722-84-1, Hydrogen peroxide, biological studies
25136-75-8, Polyquaternium 39 **53694-17-0**, Merquat 280
 217087-71-3, Structure 2001 217087-72-4, Structure 3001
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (ammonia-free composition for **dyeing** hair fibers)
- IT **25136-75-8**, Polyquaternium 39 **53694-17-0**, Merquat 280
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (ammonia-free composition for **dyeing** hair fibers)
- RN 25136-75-8 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

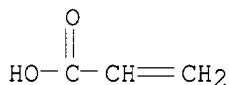
CMF C8 H16 N . Cl

● Cl⁻

CM 2

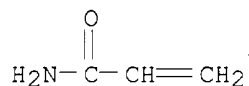
CRN 79-10-7

CMF C3 H4 O2



CM 3

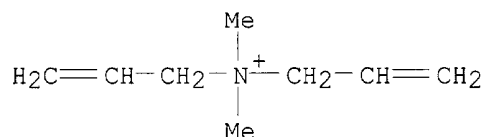
CRN 79-06-1
CMF C3 H5 N O



RN 53694-17-0 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

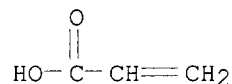
CRN 7398-69-8
CMF C8 H16 N . Cl



● Cl⁻

CM 2

CRN 79-10-7
CMF C3 H4 O2



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 24 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:464164 HCAPLUS
DN 131:120589
TI Hair **dye** composition containing a laccase
IN Lang, Gerard; Cotteret, Jean
PA L'Oreal, Fr.
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9936035	A1	19990722	WO 1998-FR2794	19981218
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2773477	A1	19990716	FR 1998-254	19980113
	FR 2773477	B1	20010223		
	CA 2318321	AA	19990722	CA 1998-2318321	19981218
	AU 9917666	A1	19990802	AU 1999-17666	19981218
	AU 729022	B2	20010125		
	BR 9814740	A	20001017	BR 1998-14740	19981218
	EP 1047377	A1	20001102	EP 1998-962518	19981218
	EP 1047377	B1	20010627		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	AT 202469	E	20010715	AT 1998-962518	19981218
	ES 2161074	T3	20011116	ES 1998-962518	19981218
	PT 1047377	T	20011228	PT 1998-962518	19981218
	JP 2002509087	T2	20020326	JP 2000-539811	19981218
	RU 2204377	C2	20030520	RU 2000-121060	19981218
	GR 3036644	T3	20011231	GR 2001-401502	20010918
PRAI	FR 1998-254	A	19980113		
	WO 1998-FR2794	W	19981218		
AB	The invention concerns a ready-to-use composition for dyeing human keratinous fibers and more particularly human hair, comprising (a) at least an enzyme such as laccase; (b) at least a cationic substance or particular amphoteric polymer; (c) at least an oxidation coloring agent, as well as the dyeing methods using said composition				
IC	ICM A61K007-13				
CC	62-3 (Essential Oils and Cosmetics)				
ST	hair dye laccase formulation				
IT	Polysiloxanes , biological studies				
	RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)				
	(3-[(2-aminoethyl)amino]-2-methylpropyl Me, di-Me; hair dye composition containing a laccase)				
IT	Polysiloxanes , biological studies				
	RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)				
	([aminoethyl)amino]propyl hydroxy, di-Me; hair dye composition containing a laccase)				
IT	Polysiloxanes , biological studies				
	RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)				
	(cationic; hair dye composition containing a laccase)				
IT	Polymers, biological studies				
	RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)				
	(co-, dimethyldiallylammonium halide; hair dye composition containing a laccase)				
IT	Hair preparations				

(**dyes**; hair **dye** composition containing a laccase)

IT Oxidation
(enzymic; hair **dye** composition containing a laccase)

IT Antioxidants
Buffers
Coupling agents
Dispersing agents
Opacifiers
Perfumes
Permeation enhancers
Preservatives
Sequestering agents
Surfactants
Thickening agents
(hair **dye** composition containing a laccase)

IT Enzymes, biological studies
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(hair **dye** composition containing a laccase)

IT Keratins
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
(hair **dye** composition containing a laccase)

IT Paraffin oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(hair **dye** composition containing a laccase)

IT Polymers, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(hair **dye** composition containing a laccase)

IT Vitamins
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(hair **dye** composition containing a laccase)

IT Chlorophylls, biological studies
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(laccases of plants producing; hair **dye** composition containing a laccase)

IT Agaricus bisporus
Anacardiaceae
Apple
Aspergillus nidulans
Avocado (Persea americana)
Banana (Musa)
Botrytis cinerea
Carrot
Catharanthus roseus
Ceriporiopsis subvermisporea
Cerreia unicolor
Chaetomium thermophilum
Cladosporium cladosporioides
Coffee (Coffea)

Coprinus cinereus
Dichomitus squalens
Fomes fomentarius
Ganoderma lucidum
Ginkgo biloba
Glomerella cingulata
Heterobasidion annosum
Horse chestnut (Aesculus)
Iris (plant)
Lacquer tree
Lactarius piperatus
Maple (Acer pseudoplatanus)
Monotropa hypopitys
Myceliophthora thermophila
Neurospora crassa
Panaeolus papilionaceus
Panaeolus sphinctrinus
Peach (Prunus persica)
Phellinus noxius
Pistacia palaestina
Pleurotus ostreatus
Podocarpaceae
Podospora anserina
Polyporus pinsitus
Potato (Solanum tuberosum)
Pyricularia oryzae
Rhizoctonia solani
Rigidoporus lignosus
Rosemary
Russula delica
Schizophyllum commune
Scytalidium
Thelephora terrestris
Trametes hirsuta
Trametes versicolor
Vinca minor

(laccases of; hair **dye** composition containing a laccase)

IT Solvents

(organic; hair **dye** composition containing a laccase)

IT 2835-95-2, 2-Methyl 5-aminophenol

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(coupling agent; hair **dye** composition containing a laccase)

IT 26161-33-1, Poly(methacryloyloxyethyltrimethylammonium chloride)
35429-19-7

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(cross-linked; hair **dye** composition containing a laccase)

IT 9003-99-0, Peroxidase 9055-15-6, Oxidoreductase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(hair **dye** composition containing a laccase)

IT 80498-15-3, Laccase

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process);

USES (Uses)

(hair **dye** composition containing a laccase)

IT 88-12-0D, polymeric derivs. 89-25-8 90-15-3, α -Naphthol
 95-54-5D, 1,2-Benzenediamine, derivs., biological studies 95-55-6D,
 derivs. 95-88-5, 4-Chloro-1,3-dihydroxybenzene 106-50-3D,
 1,4-Benzenediamine, derivs., biological studies 108-26-9 108-45-2,
 1,3-Benzenediamine, biological studies 108-45-2D, 1,3-Benzenediamine,
 derivs., biological studies 108-46-3, 1,3-Dihydroxybenzene, biological
 studies 108-46-3D, 1,3-Benzenediol, derivs., biological studies
 123-30-8D, derivs. 533-31-3, Sesamol 591-27-5, 3-Aminophenol
 591-27-5D, derivs. 608-25-3, 1,3-Dihydroxy-2-methylbenzene 2380-86-1,
 6-Hydroxyindole 4664-16-8, 2,6-Dihydroxy-4-methylpyridine
53694-17-0, Merquat 280 55302-96-0 66422-95-5,
 2,4-Diaminophenoxyethanol dihydrochloride 70643-19-5 81892-72-0
 83763-47-7 93846-05-0 197179-33-2, Oramix CG110 231958-91-1
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP
 (Physical, engineering or chemical process); BIOL (Biological study); PROC
 (Process); USES (Uses)

(hair **dye** composition containing a laccase)

IT 88-12-0D, cationic copolymers **26590-05-6**, Acrylamide-
 diallyldimethylammonium chloride copolymer **57564-45-1**
98616-25-2, Polyquaternium-24 **223104-80-1**
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or
 chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(hair **dye** composition containing a laccase)

IT **26161-33-1**, Poly(methacryloyloxyethyltrimethylammonium chloride)
35429-19-7
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or
 chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

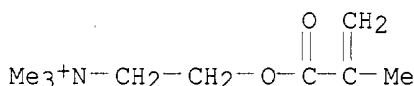
(cross-linked; hair **dye** composition containing a laccase)

RN 26161-33-1 HCAPLUS
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
 chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



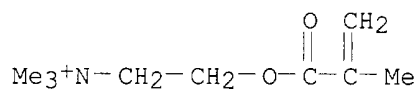
● Cl⁻

RN 35429-19-7 HCAPLUS
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
 chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

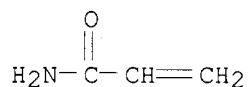


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



IT 53694-17-0, Merquat 280

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(**hair dye** composition containing a laccase)

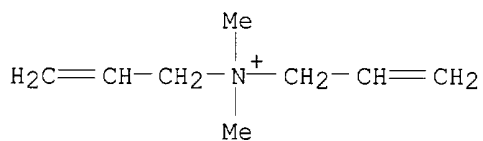
RN 53694-17-0 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

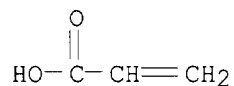


● Cl⁻

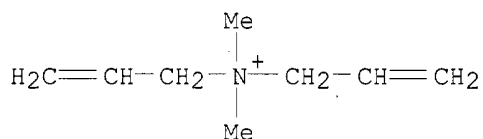
CM 2

CRN 79-10-7

CMF C3 H4 O2

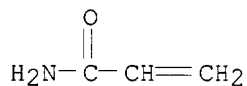


IT 26590-05-6, Acrylamide-diallyldimethylammonium chloride copolymer
57564-45-1 98616-25-2, Polyquaternium-24
223104-80-1
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or
chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(hair dye composition containing a laccase)
RN 26590-05-6 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)
CM 1
CRN 7398-69-8
CMF C8 H16 N . Cl

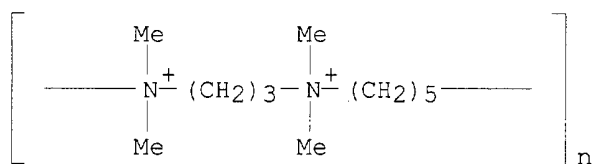


● Cl⁻

CM 2
CRN 79-06-1
CMF C3 H5 N O



RN 57564-45-1 HCAPLUS
CN Poly[(dimethyliminio)-1,3-propanediyl(dimethyliminio)-1,5-pentanedyl
dichloride] (9CI) (CA INDEX NAME)



● 2 Cl⁻

RN 98616-25-2 HCAPLUS

CN Cellulose, ether with α-[3-(dodecyldimethylammonio)-2-hydroxypropyl]-ω-hydroxypoly(oxy-1,2-ethanediyl) chloride (9CI) (CA INDEX NAME)

CM 1

CRN 169102-72-1

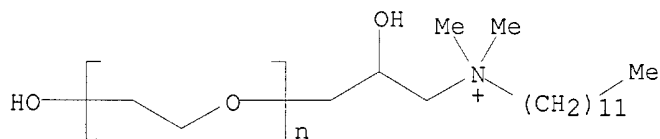
CMF (C2 H4 O)_n C17 H38 N O2 . x Unspecified

CM 2

CRN 168810-59-1

CMF (C2 H4 O)_n C17 H38 N O2

CCI PMS



CM 3

CRN 9004-34-6

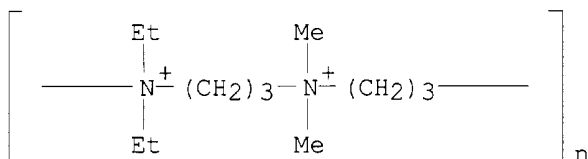
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 223104-80-1 HCAPLUS

CN Poly[(diethyliminio)-1,3-propanediyl(dimethyliminio)-1,3-propanediyl dibromide] (9CI) (CA INDEX NAME)



● 2 Br⁻

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 25 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:296972 HCAPLUS

DN 131:9443

TI Hair **dyes** containing amphoteric polymers

IN Takahashi, Toshinobu; Kurita, Nobuyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11124319	A2	19990511	JP 1997-306441	19971020
PRAI	JP 1997-306441		19971020		

AB Hair **dyes** which provide improved coloring capability, stability, and water resistance with little color transfers, comprise (1) amphoteric polymers, (2) acidic **dyes**, and (3) pigments. The **dye** compns. may further contain a foaming agent, ethanol, and water. A hair mousse contained an amphoteric copolymer, i.e. [CH₂=CMeCO₂C₂H₄N+Me₂CH₂CO₂-]_x[CH₂=CMeCO₂C₁₇H₃₅]_y[CH₂=CMeCO₂C₄H₉]_z (mol. weight 200,000) 6, naphthol blue black 0.1, naphthol yellow S 0.2, orange II 0.04, acid fuchsine D 0.15, carbon black 1, glycerin 1, **dimethylpolysiloxane** 3, polyoxyethylene hydrogenated castor oils 3, ethanol 20, perfumes q.s, LPG 8, and deionized water q.s. to 100 %.

IC ICM A61K007-06

ICS A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

ST hair acidic **dye** amphoteric polymer

IT Hair preparations

(**dyes**; hair **dyes** containing amphoteric polymers and acidic **dyes** and pigments)

IT Hair preparations

(gels; hair **dyes** containing amphoteric polymers and acidic **dyes** and pigments)

IT Carbon black, biological studies

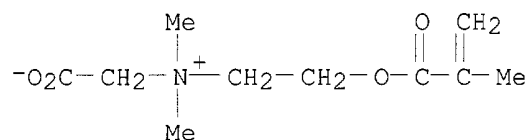
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair **dyes** containing amphoteric polymers and acidic **dyes** and pigments)

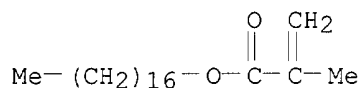
IT Hair preparations

(mousses; hair **dyes** containing amphoteric polymers and acidic

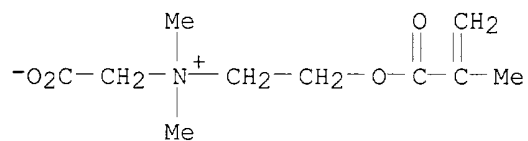
dyes and pigments)
 IT Hair preparations
 (sprays; hair **dyes** containing amphoteric polymers and acidic
 dyes and pigments)
 IT 633-96-5, Orange II 846-70-8, Naphthol yellow S 1064-48-8, Naphthol
 blue black 1332-37-2, Iron oxide, biological studies 3567-66-6, Acid
 fuchsine D **212832-26-3 225366-96-1 225366-97-2**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair **dyes** containing amphoteric polymers and acidic
 dyes and pigments)
 IT **212832-26-3 225366-96-1 225366-97-2**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair **dyes** containing amphoteric polymers and acidic
 dyes and pigments)
 RN 212832-26-3 HCAPLUS
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-
 propenyl)oxy]-, inner salt, polymer with heptadecyl 2-methyl-2-propenoate
 (9CI) (CA INDEX NAME)
 CM 1
 CRN 62723-61-9
 CMF C10 H17 N O4



CM 2
 CRN 6140-75-6
 CMF C21 H40 O2



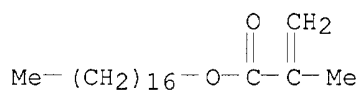
RN 225366-96-1 HCAPLUS
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-
 propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate and
 heptadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
 CM 1
 CRN 62723-61-9
 CMF C10 H17 N O4



CM 2

CRN 6140-75-6

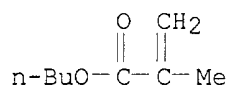
CMF C21 H40 O2



CM 3

CRN 97-88-1

CMF C8 H14 O2



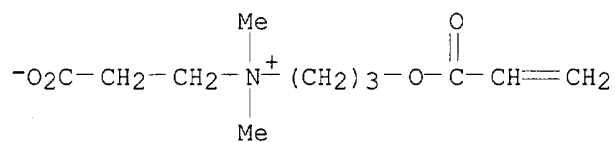
RN 225366-97-2 HCAPLUS

CN 1-Propanaminium, N-(2-carboxyethyl)-N,N-dimethyl-3-[(1-oxo-2-propenyl)oxy]-
 , inner salt, polymer with butyl 2-propenoate and heptadecyl 2-propenoate
 (9CI) (CA INDEX NAME)

CM 1

CRN 155559-37-8

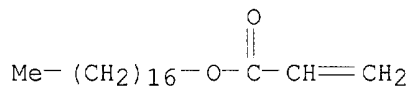
CMF C11 H19 N O4



CM 2

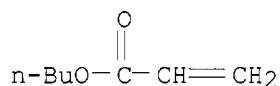
CRN 28343-58-0

CMF C20 H38 O2



CM 3

CRN 141-32-2
CMF C7 H12 O2



L31 ANSWER 26 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:166502 HCAPLUS
DN 130:227503
TI Cosmetic hair compositions containing an amine polyoxyalkylene silicon
block and a conditioning agent
IN Restle, Serge; Cauwet-Martin, Daniele
PA L'Oreal, Fr.
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9909939	A1	19990304	WO 1998-FR1845	19980824
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, GH, HR, HU, ID, IL, IS, JP, KE, KG, KP,				
	KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,				
	NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,				
	UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,				
	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,				
	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2767473	A1	19990226	FR 1997-10617	19970825
	FR 2767473	B1	20000310		
	CA 2302816	AA	19990304	CA 1998-2302816	19980824
	AU 9890785	A1	19990316	AU 1998-90785	19980824
	AU 729045	B2	20010125		
	EP 1009366	A1	20000621	EP 1998-942778	19980824
	EP 1009366	B1	20030326		
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, FI				
	JP 2001513534	T2	20010904	JP 2000-507331	19980824
	RU 2183448	C2	20020620	RU 2000-107833	19980824
	AT 235215	E	20030415	AT 1998-942778	19980824
	PT 1009366	T	20030731	PT 1998-942778	19980824
	ES 2195381	T3	20031201	ES 1998-942778	19980824
	US 6589519	B1	20030708	US 2000-486267	20000225
PRAI	FR 1997-10617	A	19970825		
	WO 1998-FR1845	W	19980824		

- AB Novel compns. containing in a cosmetically acceptable medium at least one conditioning agent selected among poly- α -olefins, fluorinated oils, fluorinated waxes, fluorinated gums, carboxylic acid esters, cationic polymers, silicon insol. in the medium, mineral, vegetable or animal oils and at least one (AB)_n type polyoxyalkylene amine silicon, A being a **polysiloxane** block and B being a polyoxyalkylene block comprising at least an amine group. Said combination provides cosmetic properties (smoothness, softness) greatly improved compared to the properties obtained by one or the other of the constituents used on its own. Said compns. are used for washing and/ conditioning hair. A shampoo contained sodium lauryl ether sulfate 17, Dehyton AB30 3, amine polyoxyalkylene silicon block (Silsoft A843) 1.5, Jaguar C13S 0.5, copra acid monoisopropanolamide 2, sodium hydroxide q.s. pH = 8.5, and water q.s. 100 g.
- IC ICM A61K007-06
ICS A61K007-48
- CC 62-3 (Essential Oils and **Cosmetics**)
- IT **Polysiloxanes**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkyl aryl; cosmetic hair compns. containing amine polyoxyalkylene silicon block and conditioning agent)
- IT **Cyclosiloxanes**
Polymers, biological studies
Polyolefins
Polysaccharides, biological studies
Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(cosmetic hair compns. containing amine polyoxyalkylene silicon block and conditioning agent)
- IT **Polysiloxanes**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(di-Me, amino-containing; cosmetic hair compns. containing amine polyoxyalkylene silicon block and conditioning agent)
- IT Hair preparations
(**dyes**; cosmetic hair compns. containing amine polyoxyalkylene silicon block and conditioning agent)
- IT **Polysiloxanes**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(polyoxyethylene-polyoxypropylene-; cosmetic hair compns. containing amine polyoxyalkylene silicon block and conditioning agent)
- IT **Polysiloxanes**, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(sulfo-containing; cosmetic hair compns. containing amine polyoxyalkylene silicon block and conditioning agent)
- IT 50-21-5D, Lactic acid, C12-15 alkyl derivs. 57-55-6D, Propylene glycol, C8-10-diacyl esters 78-22-8, Pentaerythritol monoricinoleate 106-19-4, Di-n-propyl adipate 107-43-7D, Betaine, cocoacyl derivs. 109-36-4, Octyl stearate 110-27-0, Isopropyl myristate 110-36-1, Butyl myristate 110-40-7, Diethyl sebacate 123-79-5, Dioctyl adipate 123-95-5, Butyl stearate 140-03-4, Methyl acetyl ricinoleate 142-16-5, Dioctyl maleate 142-91-6, Isopropyl palmitate 537-32-6, Glyceryl trilactate 538-23-8, Glyceryl trioctanoate 627-83-8, Ethylene glycol distearate 628-97-7, Ethyl palmitate 646-13-9, Isobutyl stearate 2306-88-9, Octyl octanoate 2599-01-1, Cetyl myristate 3008-50-2, Pentaerythritol tetraoctanoate

3460-37-5, Hexyl stearate 3687-46-5, Decyl oleate 5303-26-4, Octyl pelargonate 6283-92-7, Lauryl lactate 6938-94-9, Diisopropyl adipate 7491-02-3, Diisopropyl sebacate 9000-30-0D, Guar gum, quaternary compds. 9003-29-6, Polybutene 9004-34-6D, Cellulose, ethers, quaternary compds., biological studies 9004-62-0, Natrosol 250 9004-62-0D, Hydroxyethyl cellulose, quaternary compds. 9004-82-4, Sodium lauryl ether sulfate 14450-05-6, Pentaerythritol tetrapelargonate 15763-02-7, Dioctyl malate 16958-85-3, Octyl palmitate 17661-50-6, Myristyl stearate 17673-56-2, Oleyl erucate 18312-31-7, Stearyl octanoate 25339-09-7, Isocetyl stearate **26062-79-3**, Diallyldimethyl ammonium chloride homopolymer **26590-05-6**, Acrylamide-diallyldimethyl ammonium chloride copolymer 27306-90-7, Akypo rlm 45 29710-31-4, Cetyl octanoate 29806-73-3, Ethyl-2-hexyl palmitate 31900-57-9, **Polydimethylsiloxane** 31900-57-9D, Polydimethylsilanediol, TMS-terminated 34316-64-8, Hexyl laurate 34362-27-1, 2-Hexyldecyl laurate 35274-05-6, Cetyl lactate 37309-58-3, Polydecene 42131-25-9, Isononyl isononanoate 42131-28-2, Isostearyl lactate 42175-36-0 52006-45-8, Isocetyl isostearate 59231-34-4, Isodecyl oleate 62125-22-8, Pentaerythritol tetraisostearate 62479-36-1, Diisostearyl adipate 65497-29-2, Jaguar C13S 69275-03-2, 2-Octyldecyl myristate 71566-49-9, 2-Ethylhexyl isononate 72576-78-4, Isostearyl octanoate 72576-80-8, Isostearyl palmitate 74592-76-0, Triisopropyl citrate 83826-43-1, Octyldodecyl myristate 84878-30-8, Octyl isononanoate 89527-28-6, Isocetyl laurate 90052-75-8, Octyldodecyl stearyl stearate 93803-89-5, Pentaerythritol tetraisonanoate 94247-28-6, Isocetyl behenate 94248-76-7, Isocetyl octanoate 103300-27-2, Aminol a 15 109485-61-2, Arlamol hd 113431-54-2, Triisostearyl citrate 123759-97-7, Glyceryl undecylenate 126121-35-5 134112-33-7, 2-Octyldecyl palmitate 155665-02-4 156048-34-9 156048-35-0 175831-77-3, Trioyleyl citrate 182761-29-1, Kag 40 198133-45-8, Linoleyl lactate 210298-50-3, Isodecyl octanoate 221048-28-8 221048-31-3 221048-34-6 221048-36-8 221130-95-6, Silsoft A 843 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic **hair** compns. containing amine polyoxyalkylene silicon block and conditioning agent)

IT **26062-79-3**, Diallyldimethyl ammonium chloride homopolymer
26590-05-6, Acrylamide-diallyldimethyl ammonium chloride copolymer
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic **hair** compns. containing amine polyoxyalkylene silicon block and conditioning agent)

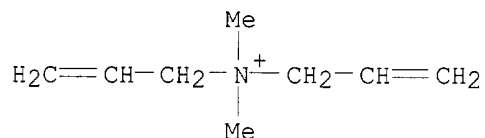
RN 26062-79-3 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl⁻

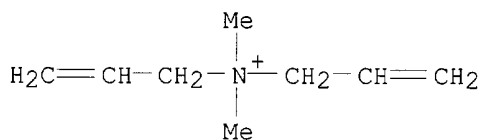
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

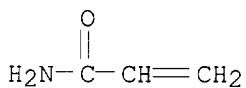


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 27 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:635635 HCAPLUS

DN 129:280773

TI Oxidative hair **dye** compositions containing 2-hydroxyphenyl
benzotriazole derivatives and surfactants

IN Hawkins, Geoffrey R.; Dolak, Terence M.; Gutkowski, Glenn A.

PA Revlon Consumer Products Corp., USA

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA English

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9841186	A1	19980924	WO 1998-US5207	19980317
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5843193	A	19981201	US 1997-819809	19970318
	CA 2255715	AA	19980924	CA 1998-2255715	19980317
	AU 9865613	A1	19981012	AU 1998-65613	19980317
	AU 725070	B2	20001005		
	EP 910330	A1	19990428	EP 1998-911725	19980317
	EP 910330	B1	20031022		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, IE, FI				
	BR 9804784	A	19990817	BR 1998-4784	19980317
	NZ 332989	A	20000327	NZ 1998-332989	19980317
	JP 2001505923	T2	20010508	JP 1998-540717	19980317
	AT 252361	E	20031115	AT 1998-911725	19980317
	ZA 9802287	A	19980923	ZA 1998-2287	19980318
	TW 513313	B	20021211	TW 1998-87104020	19980318
	NO 9805354	A	19990118	NO 1998-5354	19981117
	KR 2000011141	A	20000225	KR 1998-709301	19981118
PRAI	US 1997-819809	A	19970318		
	WO 1998-US5207	W	19980317		
OS	MARPAT 129:280773				
AB	A composition for oxidative dyeing of hair comprises, by weight of the total composition; 0.0001-20 % of at least one primary intermediate and at least one coupler for the formation of oxidation dyes , 0.01-10 % of a 2-hydroxyphenyl benzotriazole compound which absorbs UV radiation in the wavelength range of 200 to 400 nm, 0.5-20 % surfactant, and 10-65 % water. A two component kit containing the hair dye composition and a developer, and a method for oxidative dyeing of hair with said kit is also disclosed. A hair dye composition contained ammonium lauryl sulfate 2.00, propylene glycol 4.00, ethoxydiglycol 2.00, monoethanolamine 5.00, seaweed extract 0.80, EDTA 0.80, isoascorbic acid 0.20, sodium sulfite 0.50, primary intermediates and couplers 5.00, oleic acid 12.50, cetearyl alc. 4.00, emulsifying wax 2.00, oleth-20 1.00, steareth-21 0.70, meadowfoam seed oil 0.75, oleyl alc. 0.40, Polyquaternium-10 0.20, Polyquaternium-28 0.50, mica/titanium dioxide 0.30, hydrolyzed wheat protein 1.00, Cibafast W liquid 1.00, fragrance 5.00, wheat amino acids 1.00, and water q.s. 100%.				
IC	ICM A61K007-06				
	ICS A61K007-13; A61K007-42				
CC	62-4 (Essential Oils and Cosmetics)				
ST	oxidative hair dye benzotriazole deriv surfactant				
IT	Alcohols, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(C16-18, ethoxylated; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)				
IT	Alcohols, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(C16-18; oxidative hair dye compns. containing hydroxyphenyl benzotriazole derivs. and surfactants)				
IT	Fats and Glyceridic oils, biological studies				

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(Limnanthes alba seed; oxidative hair **dye** compns. containing
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Surfactants
(amphoteric; oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

IT Hair preparations
(conditioners; oxidative hair **dye** compns. containing
hydroxyphenyl benzotriazole derivs. and surfactants)

IT **Cyclosiloxanes**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(di-Me; oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

IT Hair preparations
(**dyes**, oxidative; oxidative hair **dye** compns. containing
hydroxyphenyl benzotriazole derivs. and surfactants)

IT Surfactants
(nonionic; oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

IT Surfactants
(oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

IT **Polysiloxanes**, biological studies
Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

IT Surfactants
(zwitterionic; oxidative hair **dye** compns. containing
hydroxyphenyl benzotriazole derivs. and surfactants)

IT 2235-54-3, Ammonium lauryl sulfate 7722-84-1, Hydrogen peroxide,
biological studies 9003-39-8, Poly(vinylpyrrolidone) 9004-34-6D,
Cellulose, ethers, biological studies 9004-98-2, Oleth-20
25751-21-7, Acrylic acid-methacrylic acid copolymer
26062-79-3, Poly(dimethyldiallylammonium chloride)
26590-05-6, Acrylamide-dimethyldiallylammonium chloride copolymer
56275-01-5 81859-24-7, Polyquaternium-10 92484-48-5, Cibafast W
131954-48-8, Polyquaternium-28 157956-72-4D,
trimethylsilyl-terminated
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

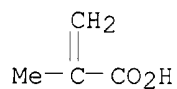
IT 25751-21-7, Acrylic acid-methacrylic acid copolymer
26062-79-3, Poly(dimethyldiallylammonium chloride)
26590-05-6, Acrylamide-dimethyldiallylammonium chloride copolymer
131954-48-8, Polyquaternium-28
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(oxidative hair **dye** compns. containing hydroxyphenyl
benzotriazole derivs. and surfactants)

RN 25751-21-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-propenoic acid (9CI) (CA
INDEX NAME)

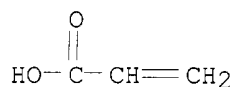
CM 1

CRN 79-41-4
CMF C4 H6 O2



CM 2

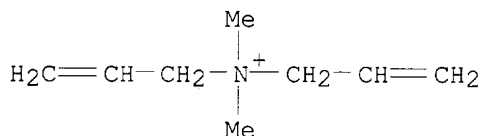
CRN 79-10-7
CMF C3 H4 O2



RN 26062-79-3 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer
(9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl

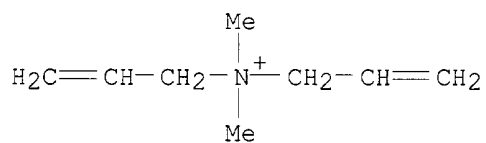


● Cl⁻

RN 26590-05-6 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8
CMF C8 H16 N . Cl

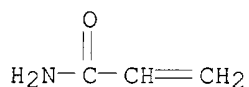


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



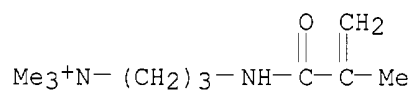
RN 131954-48-8 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 51410-72-1

CMF C10 H21 N2 O . Cl

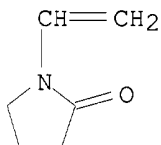


● Cl⁻

CM 2

CRN 88-12-0

CMF C6 H9 N O



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 28 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:612011 HCAPLUS

DN 129:235420

TI Hair **dye** preparations comprising polymers and reducing agents

IN Malle, Gerard; Leroy, Frederic; Duvault, Yolanda

PA L'oreal, Fr.

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9838974	A1	19980911	WO 1998-FR420	19980304
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2760359	A1	19980911	FR 1997-2537	19970304
	FR 2760359	B1	20000107		
	EP 967963	A1	20000105	EP 1998-913822	19980304
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 2001513804	T2	20010904	JP 1998-538233	19980304
	US 6361767	B1	20020326	US 1999-380459	19991122
	US 2002108188	A1	20020815	US 2002-55366	20020125
PRAI	FR 1997-2537	A	19970304		
	WO 1998-FR420	W	19980304		
	US 1999-380459	A3	19991122		
OS	MARPAT 129:235420				
AB	A method for treating hair keratin fibers to provide them with new appropriate properties, comprising the following steps: reducing the sulfur bonds of hair keratin to generate, only at the surface of the fibers at a depth less than 10 μ m reactive sites and in fixing covalently on said reactive sites at least one active compound for providing the hair keratin fibers with new appropriate properties, said active compound containing at least a reactive function capable of reacting with said reactive sites formed at the keratin fiber surface. This method is applicable to the treatment of fibrous or non-fibrous keratin substances of human or animal origin. A lotion containing tris(2-carboxyethyl)phosphine 14.23, hydroxyethyl cellulose 1.00, 20% ammonia q.s. pH = 6, water and 100.00 g was applied on a gray hair for 5 min., then the hair was rinsed followed by application of a composition containing Procion Yellow MX-8G 0.01, Procion Red MX5B 0.01, Lanazol blue 3G 0.01, hydroxyethyl cellulose 1.00, lactic acid q.s. pH = 4, and water q.s. 100.00 g. The hair was then washed, shampooed, and dried. The yellowish shade of the hair was completely removed.				
IC	ICM A61K007-09				
	ICS A61K007-04; D06M013-244				
CC	62-3 (Essential Oils and Cosmetics)				
	Section cross-reference(s): 38				
ST	hair dye polymer reducing agent; lotion hair dye phosphine polymer				
IT	Dyes				
	Sunscreens				
	(hair preps. comprising polymers and reducing agents)				
IT	5961-85-3, Tris(2-carboxyethyl)phosphine 9016-00-6D, Polydimethylsiloxane , vinyl-containing 16940-66-2, Sodium borohydrate 17804-49-8, Procion Red MX5B 31900-57-9D, Polydimethylsiloxane , vinyl-containing 32360-05-7, Octadecyl				

methacrylate 47658-69-5 70209-99-3, Lanazol blue 3G 70865-29-1,
 Procion Yellow MX-8G **212961-69-8 212961-70-1**
 212961-71-2

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(**hair** prepns. comprising polymers and reducing agents)

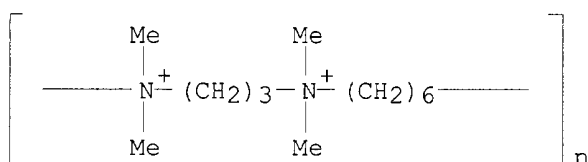
IT **212961-69-8 212961-70-1**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(**hair** prepns. comprising polymers and reducing agents)

RN 212961-69-8 HCAPLUS

CN Poly[(dimethyliminio)-1,3-propanediyl(dimethyliminio)-1,6-hexanediyl
 dihydroxide] (9CI) (CA INDEX NAME)



● 2 OH⁻

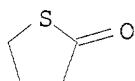
RN 212961-70-1 HCAPLUS

CN 2-Propenoic acid, methyl ester, polymer with dihydro-2(3H)-thiophenone and
 1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 1003-10-7

CMF C4 H6 O S



CM 2

CRN 107-15-3

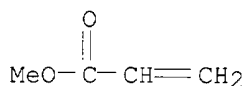
CMF C2 H8 N2

H₂N-CH₂-CH₂-NH₂

CM 3

CRN 96-33-3

CMF C4 H6 O2



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 29 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1993:633690 HCAPLUS

DN 119:233690

TI Hair **dyeing** or bleaching compositions containing nonionic surfactants and cationic or amphoteric polymers

IN Millequant, Jean-marie; Boudy, Francois

PA Oreal S. A., Fr.

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 1

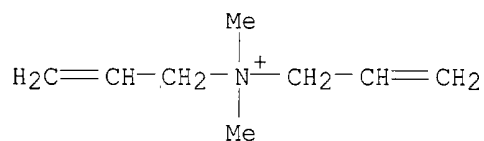
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 557203	A1	19930825	EP 1993-400433	19930219
	EP 557203	B1	19960710		
	EP 557203	B2	19981202		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
	FR 2687570	A1	19930827	FR 1992-2051	19920221
	FR 2687570	B1	19950602		
	ZA 9301142	A	19940818	ZA 1993-1142	19930218
	CA 2089988	AA	19930822	CA 1993-2089988	19930219
	CA 2089988	C	20000215		
	AT 140151	E	19960715	AT 1993-400433	19930219
	ES 2089741	T3	19961001	ES 1993-400433	19930219
	AU 9333720	A1	19930826	AU 1993-33720	19930222
	AU 666703	B2	19960222		
	JP 07267836	A2	19951017	JP 1993-72751	19930222
	US 6312677	B1	20011106	US 1995-424600	19950417
PRAI	FR 1992-2051	A	19920221		
	US 1993-20972	B1	19930222		
AB	A cosmetic composition contains a nonionic surfactant such as (ethoxylated) fatty alcs. 14-50, and a cationic or amphoteric polymer 0.05-10%; the composition is stable at room temperature and pH of >5.5. A hair bleach contained				
	ethoxylated oleocetyl alc. 4.2, ethoxylated luaryl alc. 4.8, cetylstearyl alc. 3, ethoxylated decyl alc. 13.2, Merquat-100 3, 20% solution of ammonia 12, paraphenylenediamine 0.45, m-dihydroxybenzene 0.35, 35% solution of Na bisulfite 1.8, fragrance q.s., and water q.s. to 100g; pH=10.9.				
IC	ICM A61K007-08				
	ICS A61K007-13; A61K007-135; A61K007-06				
CC	62-3 (Essential Oils and Cosmetics)				
ST	hair dye bleach surfactant polymer; fatty alc polymer hair compn; Merquat lauryl alc bleach hair				
IT	Ionene polymers				
	Polyamines				
	RL: BIOL (Biological study)				
	(hair dyes and hair bleaches containing nonionic surfactants and)				
IT	Alcohols, biological studies				
	RL: BIOL (Biological study)				

- (C16-18, hair **dyes** and hair bleaches containing cationic or amphoteric polymers and)
- IT Polyamides, biological studies
RL: BIOL (Biological study)
(amino-containing, hair **dyes** and hair bleaches containing nonionic surfactants and)
- IT **Siloxanes** and Silicones, biological studies
RL: BIOL (Biological study)
(cationic, hair **dyes** and hair bleaches containing nonionic surfactants and)
- IT Hair preparations
(**dyes**, nonionic surfactants and cationic polymers in)
- IT Alcohols, biological studies
RL: BIOL (Biological study)
(fatty, hair **dyes** and hair bleaches containing cationic or amphoteric polymers and)
- IT Alcohols, compounds
RL: BIOL (Biological study)
(fatty, ethoxylated, hair **dyes** and hair bleaches containing cationic or amphoteric polymers and)
- IT Alcohols, compounds
RL: BIOL (Biological study)
(fatty, propoxylated, hair **dyes** and hair bleaches containing cationic or amphoteric polymers and)
- IT Surfactants
(nonionic, hair **dyes** and hair bleaches containing cationic or amphoteric polymers and)
- IT Polysaccharides, biological studies
Proteins, specific or class
RL: BIOL (Biological study)
(quaternary ammonium group-containing, hair **dyes** and hair bleaches containing nonionic surfactants and)
- IT 143-28-2, Oleyl alcohol 9002-92-0, Ethoxylated lauryl alcohol 9004-98-2 9005-00-9, Ethoxylated stearyl alcohol 9016-45-9, Ethoxylated nonyl phenol 9036-19-5, Ethoxylated octyl phenol 9064-14-6 25322-68-3D, oleocetyl and cetylstearyl ethers 25618-55-7, Polyglycerol 26183-52-8 26636-40-8 52292-17-8, Ethoxylated isostearyl alcohol 122729-62-8
RL: BIOL (Biological study)
(hair **dyes** and hair bleaches containing cationic or amphoteric polymers and)
- IT 1398-61-4D, Chitin, derivs. 9007-16-3, Carbopol 934 **26062-79-3**, Merquat 100 **53694-17-0**, Merquat 280 81859-24-7 **131954-48-8**, Gafquat HS 100
RL: BIOL (Biological study)
(**hair dyes** and **hair** bleaches containing nonionic surfactants and)
- IT **26062-79-3**, Merquat 100 **53694-17-0**, Merquat 280 **131954-48-8**, Gafquat HS 100
RL: BIOL (Biological study)
(**hair dyes** and **hair** bleaches containing nonionic surfactants and)
- RN 26062-79-3 HCAPLUS
- CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

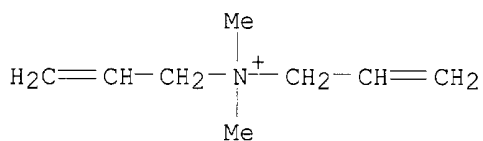


● Cl⁻

RN 53694-17-0 HCAPLUS
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

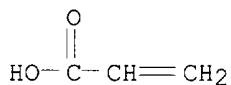
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CMF C8 H16 N . Cl



● Cl⁻

CM 2

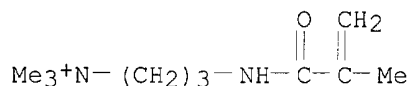
CRN 79-10-7
CMF C3 H4 O2



RN 131954-48-8 HCAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propenyl)amino]-, chloride, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 51410-72-1
CMF C10 H21 N2 O . Cl

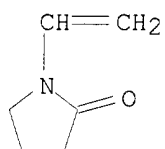


● Cl⁻

CM 2

CRN 88-12-0

CMF C6 H9 N O



L31 ANSWER 30 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1993:588281 HCAPLUS

DN 119:188281

TI Acidic hair **dyeing** compositions

IN Ishikawa, Hiroshi; Hyodo, Yoshiho; Arai, Yasuhiro

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05194161	A2	19930803	JP 1992-231326	19920806
PRAI	JP 1991-232190		19910820		

AB The title compns., which show coloring power and are shampoo-resistant, contain 0.01-15.0 weight% cationic compds. and optionally 0.01-5.0 weight% silicones. Japan Black 401 0.2, Japan Purple 401 0.3, Japan Yellow 4 0.1, benzyl alc. 5.0, tetrahydrofurfuryl alc. 12.0, citric acid 2.0, stearyltrimethylammonium chloride 0.3, hydroxyethyl cellulose 3.0, and H2O to 100% were mixed to give a **dyeing** composition, which showed good coloring power and rinse effect.

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

ST hair acid **dye** cation silicone

IT **Siloxanes** and Silicones, biological studies

RL: BIOL (Biological study)

(hair **dyeing** compns. containing acidic **dyes** and cations and)

IT Hair preparations

(**dyes**, acidic **dyes** and cations in, with rinse effect)

IT 112-03-8, Stearyltrimethylammonium chloride **26590-05-6**, Merquat

550 53633-54-8, Gafquat 755 63601-33-2, Polyquart H
81859-24-7

RL: BIOL (Biological study)

(hair dyeing compns. containing acidic dyes
and)

IT 1064-48-8, Japan Black 401 1934-21-0, Japan Yellow 4 4430-18-6, Japan
Purple 401

RL: BIOL (Biological study)

(hair dyeing compns. containing cations and)

IT 26590-05-6, Merquat 550 53633-54-8, Gafquat 755

RL: BIOL (Biological study)

(hair dyeing compns. containing acidic dyes
and)

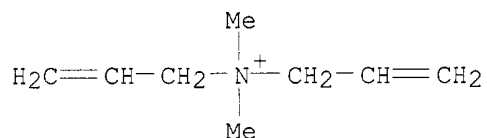
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

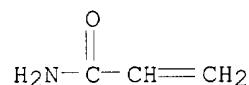
CMF C8 H16 N . Cl



CM 2

CRN 79-06-1

CMF C3 H5 N O



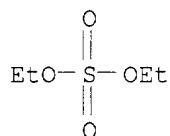
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX
NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

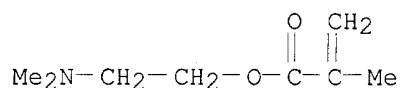
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

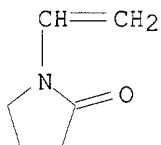
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L31 ANSWER 31 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:619731 HCAPLUS

DN 117:219731

TI Hair **dyes** containing phenol compounds-containing shampoos and mordant-containing rinses

IN Miyamoto, Nobuo; Kurokawa, Hideo; Shinjo, Zentaro

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 04164017	A2	19920609	JP 1990-288381	19901029
PRAI	JP 1990-288381		19901029		

AB Hair **dyes** are composed of shampoos containing gallic acid, tannic acid, salicylic acid, their derivs., pyrogallol, catechol, and/or hematin

and surfactants as detergents and rinses containing polyvalent metal salts and cationic polymers. Repeated use of the shampoos and rinses gradually **dye** hair without damage to hair and skin. Hair was repeatedly treated with a shampoo containing Na α -olefinsulfonate 15, coco amidopropylbetaine 5, coco fatty acid diethanolamide 2, Pr gallate 0.2, Na₂SO₄ 1.5, citric acid 0.2, BzONa 0.9, perfume 0.5 weight%, colorant, and H₂O balance and a rinse containing cetostearyltrimethylammonium chloride 1.0, cetostearyl alc. 3.0 sorbitan monostearate 0.5, polyoxyethylene glyceryl pyroglutamate isostearate 0.5, propylene glycol 5.0, p-HOC₆H₄CO₂Me 0.3, perfume 0.5 weight%, colorant, and H₂O balance 20 times to show good **dyeing** appearance.

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

ST hair **dye** shampoo rinse; phenol compd hair **dye** shampoo;
metal mordant hair **dye** rinse

IT **Siloxanes** and Silicones, biological studies

RL: BIOL (Biological study)

(hair **dyes** composed of phenol compds.-containing shampoos and
rinse containing metal salt mordants and cationic surfactants and)

IT Salts, biological studies

RL: BIOL (Biological study)

(hair **dyes** composed of phenol compds.-containing shampoos and
rinses containing cationic surfactants and)

IT Tannins

RL: BIOL (Biological study)

(hair **dyes** containing metal salts mordant-containing rinses and
shampoos containing surfactants and)

IT Shampoos

(phenol compds.-containing, hair **dyes** composed of metal salt
mordants-containing rinses and)

IT Quaternary ammonium compounds, biological studies

RL: BIOL (Biological study)

(C₁₆-18-alkyltrimethyl, chlorides, hair **dyes** composed of
phenol compds.-containing shampoos and rinses containing cationic
surfactants
and)

IT Polyelectrolytes

(cationic, hair **dyes** composed of metal salts mordant-containing
rinses and shampoos containing phenol compds. and surfactants and)

IT Betaines

RL: BIOL (Biological study)

(coco amidopropyl, hair **dyes** composed of metal salts
mordant-containing rinses and shampoos containing phenol compds. and)

IT Amides, biological studies

RL: BIOL (Biological study)

(coco, N,N-bis(hydroxyethyl), hair **dyes** composed of metal
salts mordant-containing rinses and shampoos containing phenol compds. and)

IT **Siloxanes** and Silicones, biological studies

RL: BIOL (Biological study)

(di-Me, hair **dyes** composed of phenol compds.-containing shampoos
and rinse containing metal salt mordants and cationic surfactants and)

IT Hair preparations

(**dyes**, phenol compds.-containing shampoos and metal salt
mordants-containing rinses in)

IT 26590-05-6, Merquat 550 81859-24-7

RL: BIOL (Biological study)

(hair **dyes** composed of metal salts mordant-containing
rinses and shampoos containing phenol compds. and surfactants and)

IT 7439-89-6D, Iron, salts 7705-08-0, Ferric chloride, biological studies

7720-78-7, Ferrous sulfate 7758-94-3, Ferrous chloride 10028-22-5,
Ferric sulfate

RL: BIOL (Biological study)

(hair **dyes** composed of phenol compds.-containing shampoos and
rinses containing cationic surfactants and)

IT 107-64-2, Distearyltrimethylammonium chloride 112-03-8,
Stearyltrimethylammonium chloride 144315-10-6D, N-cocoyl derivs., esters

RL: BIOL (Biological study)

(hair **dyes** composed of phenol compds.-containing shampoos and
rinses containing metal salts mordant and)

IT 56-86-0D, L-Glutamic acid, N-cocoyl derivs., sodium salts 69-72-7,
Salicylic acid, biological studies 87-66-1, Pyrogallol 120-80-9,
Catechol, biological studies 121-79-9, Propyl gallate 149-91-7, Gallic
acid, biological studies 149-91-7D, Gallic acid, alkyl esters
831-61-8, Ethyl gallate 9004-82-4 15489-90-4, Hematin 42926-22-7,
Sodium N-lauroylglutamate

RL: BIOL (Biological study)

(hair **dyes** containing metal salts mordant-containing rinses and
shampoos containing surfactants and)

IT 26590-05-6, Merquat 550

RL: BIOL (Biological study)

(hair **dyes** composed of metal salts mordant-containing
rinses and shampoos containing phenol compds. and surfactants and)

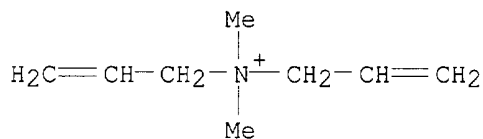
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with
2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

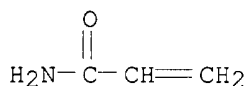


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



L31 ANSWER 32 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:576095 HCAPLUS

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

DN 109:176095
 TI Hair conditioners containing poly(alkyloxazoline) and cationic polymers
 IN Grollier, Jean Francois; Dubief, Claude
 PA Oreal S. A., Fr.
 SO Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3731477	A1	19880324	DE 1987-3731477	19870918
	DE 3731477	C2	19990121		
	FR 2604087	A1	19880325	FR 1987-12876	19870917
	FR 2604087	B1	19910503		
	NL 8702224	A	19880418	NL 1987-2224	19870917
	US 4867966	A	19890919	US 1987-97703	19870917
	CH 673772	A	19900412	CH 1987-3590	19870917
	GB 2195534	A1	19880413	GB 1987-21973	19870918
	GB 2195534	B2	19901024		
	JP 63088116	A2	19880419	JP 1987-234697	19870918
	BE 1000437	A3	19881206	BE 1987-1051	19870918
	CA 1295256	A1	19920204	CA 1987-547280	19870918
PRAI	LU 1986-86599		19860919		

AB The title cosmetic contains ≥ 1 poly(oxazoline) derivs.
 $[N(COR)CH_2CH_2]_n$ (I; R = alkyl, n = polymeric) with mol. weight $> 10,000$, and
 ≥ 1 cationic polymers. The cationic polymer may be selected from
 quaternized polymers or **polysiloxanes**, poly(amines),
 poly(aminoamides), or quaternary polyammonium compds. This cosmetic
 composition is useful for the conditioning treatment of hair following a hair
 waving procedure, **dyeing**, or shampooing; I are capable of
 imparting body and bounce to the hair, but only in combination with
 cationic polymers are shine, manageability, and softness imparted
 satisfactorily. A wave setting lotion contained I (R = Et) (polymer XAS
 10874-03) 0.6, Gaffix VC 713 (cationic terpolymer) 0.5, H₂O 100 g, and
 sufficient EtOH, 2-amino-2-methyl-1-propanol, perfume, color and
 preservative.

IC ICM A61K007-06
 ICS A61K007-09

ICA C08L079-00; C08L039-04; C08L033-14; C08L005-00; C08L001-08

CC 62-4 (Essential Oils and **Cosmetics**)

IT **Siloxanes** and Silicones, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(hair conditioners containing poly(alkyloxazoline) and)

IT **30581-59-0** 63451-27-4 87914-10-1, Croquat S **92183-41-0**
102972-64-5 108422-88-4, Ucar ALE 56

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(hair conditioners containing poly(alkyloxazoline) and)

IT 88-12-0D, polymers with dialkylaminoalkyl acrylate 2235-00-9D, polymers
 with vinylpyrrolidone and dialkylaminoalkylacrylate 9004-34-6D,
 Cellulose, ethers, quaternized derivs. **31672-68-1D**, salts
53633-54-8 61840-27-5 83138-06-1, Crotein Q 94395-78-5
 95144-24-4 100843-04-7, Hercofloc 1031 117158-60-8D, salts
 117158-61-9D, salts

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

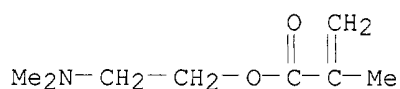
(hair conditioners containing poly(alkyloxazoline) and)

IT 106-89-8D, polymers, condensates with polyamines **75345-27-6**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair conditioners containing poly(alkyloxazolines) and)
 IT **30581-59-0 92183-41-0 102972-64-5**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair conditioners containing poly(alkyloxazoline) and)
 RN 30581-59-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

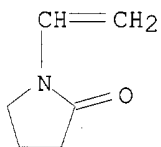
CMF C8 H15 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O

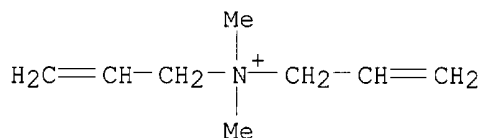


RN 92183-41-0 HCAPLUS
 CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

● Cl⁻

CM 2

CRN 9004-62-0

CMF C2 H6 O2 . x Unspecified

CM 3

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 107-21-1

CMF C2 H6 O2

HO-CH₂-CH₂-OH

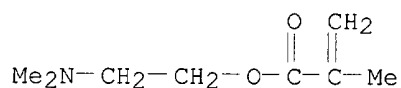
RN 102972-64-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone (9CI)
(CA INDEX NAME)

CM 1

CRN 2867-47-2

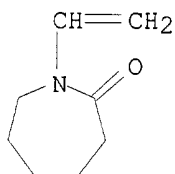
CMF C8 H15 N O2



CM 2

CRN 2235-00-9

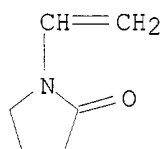
CMF C8 H13 N O



CM 3

CRN 88-12-0

CMF C6 H9 N O



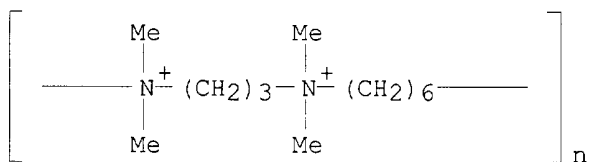
IT 31672-68-1D, salts 53633-54-8

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair conditioners containing poly(alkyloxazolinone) and)

RN 31672-68-1 HCAPLUS

CN Poly[(dimethyliminio)-1,3-propanediyl(dimethyliminio)-1,6-hexanediyl] (9CI) (CA INDEX NAME)



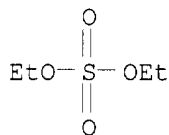
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

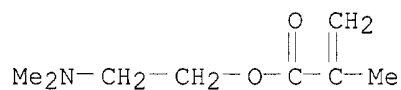
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

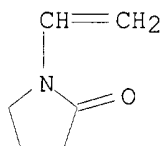
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



IT 75345-27-6

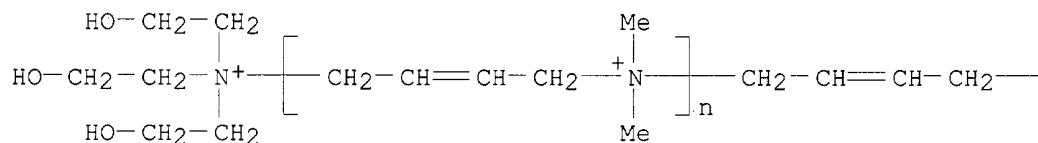
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair conditioners containing poly(alkyloxazolines) and)

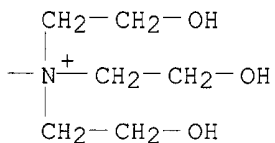
RN 75345-27-6 HCAPLUS

CN Poly[(dimethyliminio)-2-butene-1,4-diyl chloride], α -[4-[tris(2-hydroxyethyl)ammonio]-2-butenyl]- ω -[tris(2-hydroxyethyl)ammonio]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

● 3 Cl⁻

PAGE 1-B



L31 ANSWER 33 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:156256 HCAPLUS

DN 108:156256

TI Agents for **dyeing** or bleaching of hair

IN Mdrange, Annie; Canivet, Patrick

KATHLEEN FULLER EIC 1700 REMSEN 4B28 571/272-2505

PA Oreal S. A., Fr.
 SO Ger. Offen., 24 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3712005	A1	19871022	DE 1987-3712005	19870409
	DE 3712005	C2	20011018		
	FR 2596985	A1	19871016	FR 1986-5149	19860410
	FR 2596985	B1	19900824		
	CA 1283862	A1	19910507	CA 1987-533746	19870403
	CH 674460	A	19900615	CH 1987-1394	19870409
	GB 2188948	A1	19871014	GB 1987-8585	19870410
	GB 2188948	B2	19901114		
	JP 62242609	A2	19871023	JP 1987-88568	19870410
	BE 1004391	A4	19921117	BE 1987-382	19870410
	US 5143518	A	19920901	US 1991-719366	19910624
PRAI	FR 1986-5149	A	19860410		
	US 1987-37015	B1	19870410		
	US 1989-301879	B1	19890126		

AB The title agents are made of alkali metal or alkanolamine salts of C12-18 fatty acids, a cationic or amphoteric silicone polymer (Ucan Silicone Ale 56, Abil 9950, etc.), a cationic surfactant (Noramium M2CD, Argust 2HT75, Ammonyx 4002, etc.), an alkalizing agent, and a cationic polymer. The cationic polymer is a quaternary polyammonium polymer, vinylpyrrolidone dialkylaminoalkyl(meth)acrylate copolymer (eventually quaternized), poly(methacrylamidopropyltrimethylammonium chloride), and cationic proteins and polyaminoamides, eventually cross-linked or alkylated. The agents are mixed with an oxidant, shortly before use. For **dyeing**, the agents are also mixed with oxidative **dye** precursors and, eventually, coupling and reducing agents. The above agents have a good foaming capacity and are readily dispersed in the hair. They improve the cosmetic properties of the hair, especially the combing capacity, and impart a silky look. A hair **dye** comprised oleic acid 10.4, triethanol amine 5.44, Mirapol A15 0.1, ceraphyl 60 0.1, cationic emulsion Q.2.7224 0.5, 35% NaHSO3 solution 1.3, penta-Na diethylenetriaminepentaacetate 2.4, p-phenylenediamine 0.027, resorcinol 0.033, m-aminophenol 0.030, hydroquinone 0.15, 20% NH3 10, and H2O to 100 parts by weight Before use, the **dye** (100 g) is mixed with 100 g 6% H2O2.

IC ICM A61K007-13

ICS A61K007-135; D06P003-08

ICA C08L083-08; C08L079-02; C08L077-00; C08L089-00; D06P001-32; B01F017-18; A61K007-06

ICI C08L039-06, C08L033-14

CC 62-3 (Essential Oils and **Cosmetics**)

ST hair **dye** oxidative silicone; polymer cationic hair **dye**; bleaching agent hair silicone

IT Protein hydrolyzates

RL: BIOL (Biological study)

(compds. with (Z)-N-[3-(dimethylamino)propyl]-9-octadecenamide, hair **dye** and bleaching agent containing)

IT **Siloxanes** and Silicones, biological studies

RL: USES (Uses)

(hair **dye** and bleaching agent containing)

IT Quaternary ammonium compounds, biological studies

RL: USES (Uses)

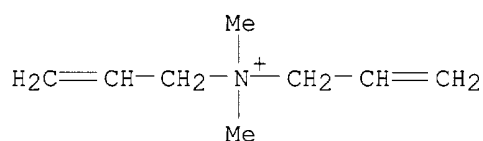
(C20-22-alkyltrimethyl, chlorides, hair **dye** and bleaching

agent containing)
 IT Quaternary ammonium compounds, uses and miscellaneous
 RL: USES (Uses)
 (bis(hydrogenated tallow alkyl)dimethyl, chlorides, hair **dye**
 and bleaching agent containing)
 IT Polyelectrolytes
 Surfactants
 (cationic, hair **dye** and bleaching agent containing)
 IT Hair preparations
 (**dyes**, oxidative, silicones- and cationic polymers-containing)
 IT Collagens, compounds
 RL: BIOL (Biological study)
 (hydrolyzates, (coco alkyl)dimethylammonio)alkyl, hair **dye** and
 bleaching agent containing)
 IT 109-28-4D, protein hydrolyzates 122-19-0 475-03-6, Ionene 3401-74-9
 26062-79-3, Merquat 100 51812-80-7, Ceraphyl 60
 53633-54-8, Gafquat 734 61840-27-5 63451-27-4, Mirapol A 15
 94395-78-5 101993-82-2 102523-94-4 102523-96-6 108422-88-4, Ucar
 silicone ALE 56 113784-58-0
 RL: BIOL (Biological study)
 (hair **dye** and bleaching agent containing)
 IT 26062-79-3, Merquat 100 53633-54-8, Gafquat 734
 RL: BIOL (Biological study)
 (hair **dye** and bleaching agent containing)
 RN 26062-79-3 HCAPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer
 (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



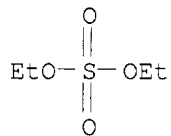
● Cl⁻

RN 53633-54-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with
 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX
 NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S

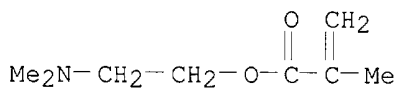


CM 2

CRN 30581-59-0
CMF (C8 H15 N O2 . C6 H9 N O)x
CCI PMS

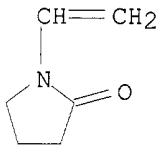
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 88-12-0
CMF C6 H9 N O



L31 ANSWER 34 OF 34 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1983:95492 HCAPLUS
DN 98:95492
TI Composition for treating the hair
IN Grollier, Jean Francois; Fiquet, Claire; Fourcadier, Chantal; Dufief,
Claude; Mondet, Jean; Cauwet, Daniele
PA Oreal S. A. , Fr.
SO Ger. Offen., 80 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	DE 3216687	A1	19821202	DE 1982-3216687	19820504
	DE 3216687	C2	19960718		
	SE 8202843	A	19821109	SE 1982-2843	19820506
	DK 8202042	A	19821109	DK 1982-2042	19820506

GB 2098226	A	19821117	GB 1982-13081	19820506
GB 2098226	B2	19841128		
BE 893113	A1	19821108	BE 1982-208034	19820507
FR 2505179	A1	19821112	FR 1982-7997	19820507
FR 2505179	B1	19871023		
NL 8201877	A	19821201	NL 1982-1877	19820507
JP 57198800	A2	19821206	JP 1982-76490	19820507
JP 04000961	B4	19920109		
CA 1179268	A1	19841211	CA 1982-402538	19820507
AT 8201804	A	19850315	AT 1982-1804	19820507
AT 378910	B	19851025		
CH 652920	A	19851213	CH 1982-2873	19820507
US 4842849	A	19890627	US 1987-115612	19871030
PRAI LU 1981-83350		19810508		
US 1982-376036		19820507		

AB Compns. for treating hair consist of a mixture of polymers with cationic groups and anionic polymers which contain the group CH₂CH(SO₃M) (where M = H, NH₂, alkali or alkaline earth metal), surfactants and other additives. The combination of cationic polymers with vinylsulfonate polymers leads to a better disentanglement of hair than that containing other sulfonic polymers. Thus, a shampoo composition was prepared containing Na poly(vinylsulfonate) [25053-27-4] 1, Cartaretin F8 [61840-27-5] 6, Dehyton AB 30 6, surfactant RCH(OH)CH₂O[CH₂CH(OH)CH₂O]_nH (R = C₉-12 alkyl and n = 3.5) 5, Antarox CO 630 5 g, NaOH to pH 7, perfume, preservative, **dye** and H₂O to 100 g. This composition is applied to the hair where a smooth foam is formed. The hair is then washed and the damp hair can be disentagled easily. If Na poly(styrenesulfonate) is used instead of Na poly(vinylsulfonate) the disentanglement of hair is difficult.

IC C09K003-00; C11D003-37; A61K007-00; A61K007-04; A61K007-06; A61K007-48; D06M015-00

CC 62-3 (Essential Oils and **Cosmetics**)

IT **Siloxanes** and Silicones, uses and miscellaneous

RL: PREP (Preparation)

(cationic, hair preps. and shampoos containing vinylsulfonate polymers and)

IT 25053-27-4 **35164-11-5**

RL: BIOL (Biological study)

(hair preps. and shampoos containing cationic polymers and)

IT 106-89-8D, reaction products with adipic acid-diethylenetriamine copolymer

9002-98-6 24938-07-6 25085-20-5D, reaction products with

epichlorohydrin **26590-05-6 53633-54-8** 61840-27-5

65497-29-2 **68393-49-7 75345-27-6** 81859-24-7

84592-99-4 84593-28-2 **92183-41-0** 95144-24-4

RL: BIOL (Biological study)

(**hair** preps. and shampoos containing vinylsulfonate polymers and)

IT **35164-11-5**

RL: BIOL (Biological study)

(hair preps. and shampoos containing cationic polymers and)

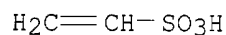
RN 35164-11-5 HCAPLUS

CN Ethenesulfonic acid, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 1184-84-5

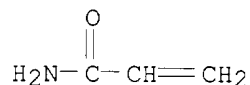
CMF C2 H4 O3 S



CM 2

CRN 79-06-1

CMF C3 H5 N O



IT 26590-05-6 53633-54-8 68393-49-7

75345-27-6 92183-41-0

RL: BIOL (Biological study)

(hair preps. and shampoos containing vinylsulfonate polymers and)

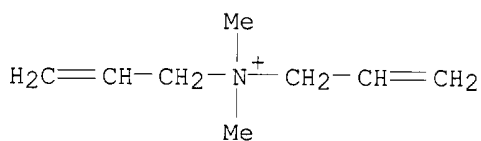
RN 26590-05-6 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl

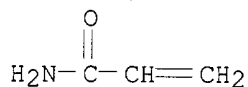


● Cl⁻

CM 2

CRN 79-06-1

CMF C3 H5 N O



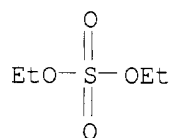
RN 53633-54-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 30581-59-0

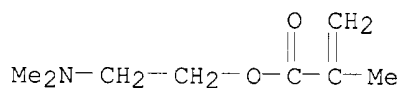
CMF (C8 H15 N O2 . C6 H9 N O)x

CCI PMS

CM 3

CRN 2867-47-2

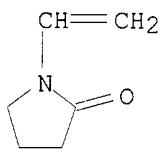
CMF C8 H15 N O2



CM 4

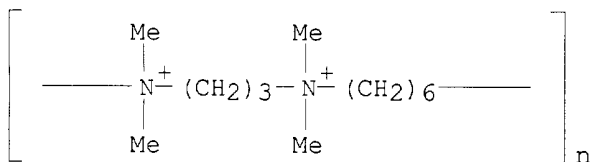
CRN 88-12-0

CMF C6 H9 N O



RN 68393-49-7 HCAPLUS

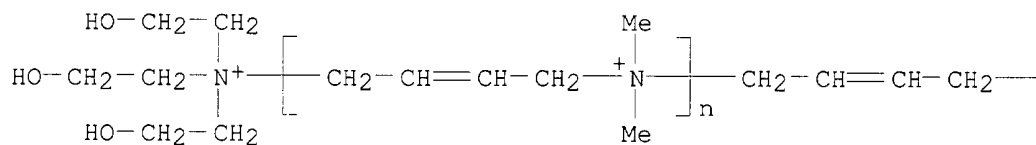
CN Poly[(dimethyliminio)-1,3-propanediyl(dimethyliminio)-1,6-hexanediyl dichloride] (9CI) (CA INDEX NAME)

●2 Cl⁻

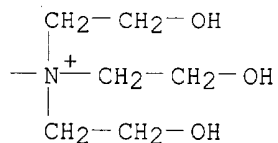
RN 75345-27-6 HCAPLUS

CN Poly[(dimethyliminio)-2-butene-1,4-diyl chloride], α-[4-[tris(2-hydroxyethyl)ammonio]-2-butenyl]-ω-[tris(2-hydroxyethyl)ammonio]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

●3 Cl⁻

PAGE 1-B



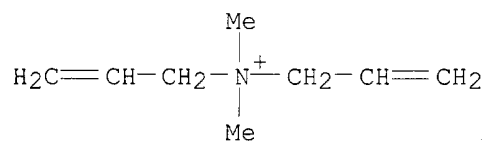
RN 92183-41-0 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether, polymer with N,N-dimethyl-N-2-propenyl-2-propen-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



CM 2

CRN 9004-62-0

CMF C2 H6 O2 . x Unspecified

CM 3

CRN 9004-34-6

CMF Unspecified

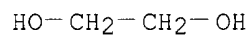
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 107-21-1

CMF C2 H6 O2



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